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THE AMERICAN FLORIST



America is "the Prow of the Vessel; there may be more comfort Amidships, but we are the first to touch Unknown Seas."

Vol. X.

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The Tenth Annual Meeting

OF THE

Society of American Florists

WILL BE HELD AT

ATLANTIC CITY, N. J.,

AUGUST 21, 22, 23 & 24, 1894.

Members may remit the annual dues (\$3.00) to the secretary prior to the meeting, thus avoiding the crowd and relieving the officers on the opening day. Badge for 1894 will be sent by mail to those who remit in advance of the meeting.

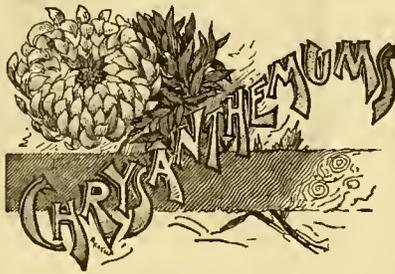
Intending members can obtain any information wanted by addressing the secretary.

OFFICERS:

J. T. ANTHONY, Chicago, president; ROBERT KIFT, Philadelphia, vice-president; W. M. J. STEWART, 67 Bromfield St., Boston, Mass., secretary.

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Notes.

The grasshoppers are beginning to find their way into the houses, and will need looking after; they are great feeders and will eat the end out of a strong shoot very quickly. Hand picking is the best remedy that we know, but care must be taken in catching them or the shoots, which are now very soft and brittle, will be broken off. Take a trip through the houses occasionally after dark and see if there are any millers flying around. The catching of one of these insects when it makes its first appearance means the killing of hundreds, if not more, of grubs or worms that will make a fine late dinner or breakfast of some succulent stem or bud later on.

In our notes last week on requiring individual blooms to be shown on 12 inches of stem we said that some other way might be found to improve the general appearance of our exhibitions. This requirement, if we are not mistaken, was first introduced in New York in the schedule of 1891, and was the outcome of the death of the board system the previous year. It was then established, as we have been informed, for two reasons: first, to place all exhibitors on an equality and not let arrangement influence the opinion of the judges, and second, to show the flowers so that their bad as well as good qualities could be easily distinguished; that is, if they had a "weak neck" or a long flower stalk to let the growers find it out. Now, this is all right as far as it goes, but it narrows the exhibition down to a few varieties (that are over and over repeated in the different stands) which have strong, stiff stems, or to strictly commercial flowers, and consequently discards many varieties that are very valuable in a large display. For instance, Kioto is one of the best exhibition varieties that we have to-day, of beautiful color and form, and possessing that peculiar waxy lustre of its petal found in no other, but it has been discarded because it has a "weak neck" and a long flower stalk. The incurved varieties, where are they? They are nearly all weak necked, and if shown at all are relegated to some side table in order to make room for their larger and showier sisters.

Now, the showing of blooms on long stems is wrong, except in seedlings, when

the weak points of the bloom, if it has any, should be shown up, and in large vases of six or more of a variety. In the first place we do not believe our shows are intended for the exhibition of commercial varieties only, but to bring out all the classes and varieties possible. In the next place the growers are not the only ones to be considered, for it is the public that furnishes the funds that keep the shows going, and they little care whether a variety would be profitable or not to a grower, but are much more interested in the various forms and colors, and often visit the shows with the idea that they will see many varieties not placed on sale at the stores. If we keep on in the line in which we are now moving we may before long lose their patronage. At one of the large shows last year we overheard a lady remark to her companion as she went away that she had seen just as good flowers in the florists' windows on the street, and that they were much better arranged. It is hardly necessary to say that if that idea becomes general we shall have to hustle to keep our heads above water at our shows.

One of the remedies seems to us to be a better arrangement of our blooms, and in order to procure this it does not seem to be advisable to hamper the exhibitor, but let him show his flower as he may like, and thereby bring out many ideas; possibly we shall strike an arrangement that will be just what we want, and no fear but that the others will immediately adopt it. It might also be advisable to offer a premium for the best arranged exhibit at the show, not containing less than eighteen blooms, or any other number that may be deemed advisable. This prize to be offered not for a special exhibit, but to include all exhibits shown for other prizes.

The best way that we have ever seen to stage chrysanthemum blooms is to show each flower in a bottle by itself. Before placing the blooms set into each bottle a spray of handsome chrysanthemum foliage and replace it during the show if it wilts. Cut the stems of the front row so that the flowers will just stand clear of the bottle. Make the second just tall enough so that in looking level across the table one half of the flower will show, and instead of placing them in straight lines set them between the blooms of the first row, leaving room enough between the blooms that they do not touch. Continue on in this way to the back row, but do not have more than four rows if it can be helped. An exhibit, if arranged in this manner, with as much care as possible being taken in the arrangement of colors, will amply repay for the time and attention given, will improve the general effect wonderfully, and will attract the eyes of every visitor to the show.

ELIJAH A. WOOD.

West Newton, Mass.

WILKESBARRE, PA.—William M. Eldridge died from heart disease Monday night, August 6.



TO PREVENT RUST.—Dissolve one pound of sulphate of copper in two quarts of ammonia in a 2-gallon jar. When dissolved add another quart of ammonia and stir well. [The liquid can be kept in this form for some time and used as needed.] Add a pint of this solution to a barrel of water and syringe the plants with a force-pump every two weeks. And don't let the time for spraying pass without attending to the operation.

Carnation Notes.

In looking ahead for next winter it may not be amiss to give a thought or two to the rooted cutting business. It is no uncommon thing to hear a grower say the only way to make money out of carnations is to sell from both ends, i. e., to sell the flowers and cuttings from the same plant. Possibly there may be few more dollars at the end of the season by following out this method, but I doubt it very much, for you can not grow as many or as good flowers on plants that are to be used for propagating (without injuring the health of the cuttings to some extent) as you can on plants that are handled for cut flowers only. This may seem like a contradictory statement, that you can not grow as good flowers on plants that are kept in good healthy condition for cuttings as you can on those grown exclusively for flowers, but it is a proven fact. To get the very best out of your plants in a cut flower way you must not be hampered by looking out for a lot of good cuttings from the same plants.

If I mistake not, the late Mr. Hunt in his book "How to grow cut flowers" brings out the point very strongly that to get rid of some of the diseases carnations seem heir to we will have to grow our stock plants in a more normal temperature than that of the forcing house, and if we want to keep up the health of our stock that is without a question the only way. To start into the selling of cuttings you should either grow separate stock for taking the cuttings from or make flowers from your plants a secondary matter. In this way you might get enough flowers to pay your coal bills, and possibly a bit more, which would help to bring the balance up on the credit side at the end of the season. In this as in everything else quality is what you will want to aim for, and unless you can send out good stock that will make good healthy plants if properly handled better send out none at all.

The standard of quality for a rooted cutting to be satisfactory to the trade now is much higher than it was even three years ago. Competition has lessened the price considerably and there is not a fortune in this business for any one man. Of course in this as in everything else those who send out extra good cuttings and deal squarely and honorably all the way through will get and hold a good paying trade, but if the ratio of increase in number of those who grow cuttings to sell is as great in the next five years as it has been in the past five it will be harder and harder to get a good trade. If a grower can get good stock within a hundred miles of his home he is not likely to send a thousand mile, for it, and from the present outlook this trade will become more localized every year.

There is considerable expense connected with the cutting business that is some-



HOUSE OF MRS. FISHER CARNATIONS [PHOTOGRAPHED FEB 1, 1894]

times overlooked by those who contemplate going into it. In the first place there are on a moderate estimate 3,500 growers you will want to reach with your announcement. The best way without question is through the floricultural papers. That will cost you a little money; not so much, but still it is quite an item at the end of the year. The greatest expense comes in with the preparation and mailing of your price list, and taking everything together you will be very fortunate if you make sales enough to bring the cost of making them down to thirty per cent of the net receipts.

If a grower with two or three greenhouses come to me for advice as to whether he can make more out of them by selling cuttings my reply always is "don't you believe it, stick to your flowers and be happy." The grower who has a good sized plant so that he can, devote a part of it to cuttings and a part to flowers, can by persistent advertising and constant attention to business get up a trade on cuttings that will pay fairly well in the course of a few years, but to start in with a small place where you have say not over a thousand plants of any one variety it is only a vexation and a worry. If you get an order for say 2,500 of a certain variety you will have to injure your plants by taking too many cuttings off them to fill this order and smaller ones you may have, or else fill the order piecemeal or send it back, either of which is alike annoying both to yourself and the purchaser. I have been through this mill and know what I am talking about; not that I want to discourage any one in the business, but it is worth thinking about seriously before you attempt to grow cuttings for sale and make money from both ends.

ALBERT M. HERR.

House of Mrs. Fisher Carnations.

Referring to the discussion on the merits of Mrs. Fisher carnation Mr. Chas. Pommert of Greenfield, O., sends us the photo from which the accompanying engraving is made. The photo was taken February 1 last, and Mr. Pommert writes that the house had been in full bloom since September 1, 1893. The picture certainly speaks for itself and shows that the variety does well with Mr. P., whatever faults it may have developed elsewhere.

Mrs. Fisher Carnation Again.

Seeing so little in the FLORIST about the "Mrs. Fisher" carnation, I send you a photo of a house of that variety, which was taken on the 26th of June. They have been in bloom continuously since last October and with the exception of a short time in May have yielded immensely. The house is 156 feet long, 24 feet wide, three-quarter span with solid bed on south side and two benches, one higher than the other, so that the picture shows only a part of the two benches. The flowers do not show very much in the picture, but I am cutting from 1,200 to 1,800 every day now, and shall continue to do so until the house has to be made ready for next season's crop.

Soil used by us is a light sandy loam from old pasture sod worked up with stable manure, and ashes and fertilizer applied before setting the plants.

With us in this section, the "Mrs. Fisher" is the best and most profitable white carnation we can grow.

JEROME BUTTERFIELD,
Florist for Coolidge Bros.

So. Sudbury, Mass.

Eats the Flower Buds.

An insect that is new to me has caused considerable damage this summer to my carnations and roses. In appearance and actions it very much resembles the common thrips, but is nearly white in color. It does its work in the flower buds entirely, crawling into them as soon as the calyx begins to open, and feeds on the petals before they are exposed enough to show color, as well as after. The result is the outside petals have a rusty appearance, as though they had been bruised, and sometimes are injured so as to dwarf their growth, thus injuring the development of the buds. Have any readers of the FLORIST been troubled with the same, and if so what remedy has proved effective?

INQUIRER.

DO YOU WANT Mr. Scott's seasonable hints for the year in book form, so that you can refer readily to his suggestions for any week in the year? You will find them in this form in our trade directory and reference book for 1894. Price \$3.00.



HOUSE OF MRS. FISHER CARNATION AT SOUTH SUDBURY, MASS.

The Ginkgo Tree.

The ginkgo or maidenhair tree, *Ginkgo biloba*, formerly called *Salisburia adiantifolia*, is a monotypic genus, the species being a fine deciduous tree from China and Japan, belonging to the yew sub-order of coniferae, though no tree can appear less like a member of the pine family than the ginkgo. It is a fairly rapid grower, with a straight trunk clothed with a light gray bark; its leaves are alternate, fan-shaped or wedge-shaped with a broad apex notched or cut more or less deeply, frequently two lobed, thick and leathery, with fine longitudinal ribs, and of a light yellowish green color. The leaves are so like those of some maidenhair ferns (only much larger of course) that it is sometimes called the maidenhair tree. It thrives thoroughly well in almost any garden soil. Louden recommends propagation by cuttings or layers, but we find it comes more readily from seed, as about 90% of good fresh seed will germinate and make finer specimens than from either cuttings or layers. There is but one difficulty in securing the seed, that is the staminate and pistillate flowers are borne upon separate trees. The former are in slender catkins about 1½ inches long, while the female flowers are either solitary or in small clusters at the end of the branches. The female flower, which consist only of a naked ovule, is seated in a small cup-like disk, this increases in size and covers the base of the ripe fruit, which is a globular or ovate nut.

In its native countries the ginkgo attains a large size; Bunge mentions one 40 feet in circumference, and still vigorous. There is a specimen in the Botanic Garden at Pisa 80 feet high. It is supposed that it was introduced into Europe from Japan by the Dutch. It has been up to a recent date a rare tree, though it is recorded as having been first planted in this country in 1784 by Mr. Alexander Hamilton, who

lived at Woodlands, near Philadelphia; the trees are still standing, though the grounds have been converted into a rural cemetery, being 60 feet high, 3½ in circumference. There are some fine specimens in Boston Common, one of which was moved to its present site from a private garden in 1832. It is said that this tree was a well grown specimen in 1798, so it has attained a very respectable antiquity.

This tree until recently has been but little cultivated. It will stand severe pruning, and can even be kept as a large bush if desired, though the subject of pruning street trees is one upon which there is diversity of opinions, our own Parking Commission being divided upon it. I think this tree preferable to several of the varieties now planted on our streets. It is excellent for narrow streets, owing to its upright habit, and possesses all other features which strongly recommend it as a city tree; it is always clean and is never infested with insects. The only objection any one could have to it is that the odor from the fruit when bruised is very disagreeable. Two small streets are now planted with this beautiful tree; they are handsome specimens. There is a row of them on either side of the drive from B street to the Department of Agriculture, doing very nicely. There is a very old specimen on Analostan Island, near the old Naval Observatory, which was here in the days of General Mason, who owned that island, and whose gardener was the author of one of the earliest American books on gardening.

The wood is of a yellowish color without any resinous qualities, and useful as lumber, though the Chinese cultivate the tree mainly for its nuts, which are edible but insipid. Medicinal virtues are attributed to them, and they are considered essential, roasted or boiled, at entertainments.

REYNOLDS.

Judges and Exhibitions.

Some weeks ago I read with very great interest the able remarks made by Messrs. Stewart, Ewing and Watson upon the one and three judge systems, also the sound and well worded criticism added by the editor of the *FLORIST* upon these opinions. I was sorry the subject was not ventilated still further, as I think exhibitions and judging one of the most important subjects, and of vital interest to all in the trade.

America is not alone in its three judge system, as it is the invariable rule for the committee at English exhibitions to appoint three judges, men of thorough practical ability, from different localities. However, it is of no use appointing either one or three judges if the schedule is not well gotten up and the details of the exhibition properly carried out. The majority of the disappointments in this line are caused by the want of practical ability and good management, resulting in disappointment to the public and financial failure.

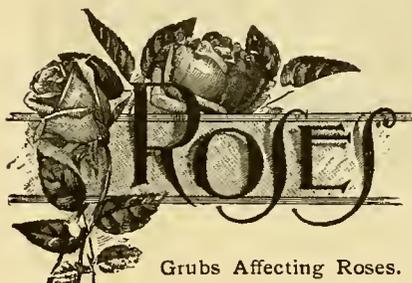
Our summer exhibition in San Francisco last year was a case in point. A committee of ladies undertook to manage the business details; they were prominent and energetic, but want of practical ability stranded their best intentions. Each exhibitor was allowed to stage his entire exhibit together, irrespective of classes; hence the judges, three in number, had to hunt all over the hall to find the competing exhibits. This show was very unsuccessful.

To insure a successful show a public meeting should be called at least two months before the date set for it; discussion should be general, and a practical committee should be chosen to compile schedule and rules and to settle every detail. The prizes need not be large, just enough to insure competition, but there should be a handsome certificate or medal

with each prize, this being worth more than the money. Each exhibit should be properly classified and staged by a certain hour on the opening day. Everyone should leave the hall while the judging is in progress, the judges being accompanied by some one whose duty it is to fill in the certificates and place them where they belong as soon as the exhibits are judged, the exhibition not to be open to the public until the judging is over.

I think it necessary that three practical men be appointed, two to do the judging, the third to be the referee if these two do not agree. The best music should be engaged and the show well advertised, members of the press receiving proper attention. The schedule should be carried out fully and impartially, without favor or preference, and if harmony and business principles go hand in hand there is no reason why the exhibition should not be a thorough success.

San Francisco, G. M. STRATTON.



Grubs Affecting Roses.

ED. AM. FLORIST:—Noticing several articles lately regarding grubs on roses, and thinking perhaps the way our foreman, Mr. Rosengreen, prepared for them might be of some benefit to others will state the facts.

June 30th we completed a new house 135x18 and put in the soil all but a part of a side bench, which we were unable to do on account of early quitting time on Saturdays of the day hands. Two strings of 1½-inch steam pipe were connected up and steam started. As soon as work on dirt ceased the ventilators were closed down and steam turned on. For twenty-four hours the temperature was kept at 100° for the night time and 150° to 170° during the day. On Monday the balance of the soil was put in and glass shaded. During the next two or three days the house was planted.

Up to the present time (August 2), of 1,100 roses planted in the soil that was baked we have not lost a plant, but of 200 planted in the soil put in afterwards have taken out 20 plants and on the roots of every one have found a large juicy white grub. In another house of the same size since completed and treated in the same way except that all the soil was baked we have not lost a single plant.

In all the soil so treated have not been able to find any animal life. Some angle worms were found all shriveled up and could be broken like a piece of stick. Probably if balance of steam pipes had been connected and the temperature run above 200° it might have destroyed some of the seed in the soil. It surely is an inexpensive way to get rid of the grub, and I trust some others may try it and report as to their success. I. SHELBY CRALL.

DO YOU WANT the census statistics regarding the florist, nursery and seed trades? You will find them in our trade directory and reference book for 1894. Price \$2.00.

Hardy Flowers for September.

This month brings us to the last of the flowering trees, a variety of *Aralia chinensis*. *Gordonia pubescens*, and *Lagerstroemia indica* also assume the tree form, but not in this latitude. Neither are they reliably hardy north of Washington, although both have stood for a series of years in southern New Jersey.

The flowering shrubs are but a small company of "hangers on," which give distinct impressions of the waning powers of our northern climate. September is a transition month, and many of the trees and shrubs are already in a state of fruitage. In this stage the chief beauty of very many of them consists, and a collection could be most usefully planted for autumn effects.

The herbaceous plants are among the most brilliant of the year, and I trust the florists of the country will make a feature of them, especially in such small towns as demand a general rather than a strictly greenhouse trade. I again urge anyone to plant large masses of a few well selected plants which flower simultaneously, rather than little insignificant bits which flower promiscuously. There are methods of alternating the plants which flower in the various months, but none of them are to be compared for effectiveness with a seasonal display.

TREES AND SHRUBS.

Aralia chinensis varieties.
Abelia rupestris (S).
Baccharis halimifolia.
Clethra tomentosa.
Caryopteris mastacanthus.
Clerodendron fragrans, fl. pl. (S.)
Daphne Cneorum.
Gordonia pubescens (S.)
Hamamelis virginica.
Hypericum patulum.
Hydrangea paniculata.
Lagerstroemia indica (S.)
Polygonum sachalinense.
Potentilla fruticosa.
Passiflora incarnata (cl.)
Pueraria Thunbergiana (cl.)
Rose Gloire de Dijon, *Dinsmore*, *La France*, etc.
Spiraea bullata.

Desmodium penduliflorum is noted as continuing to flower during this month, and *Corchorus japonicus*, *Rhodotypos kerrioides*, and *Foresteria ligustrina* as giving flowers as late as September at the north. *Lycium chinense* always flowers during September, and I do not remember to have seen it in fruit at this point.

HERBACEOUS PLANTS.

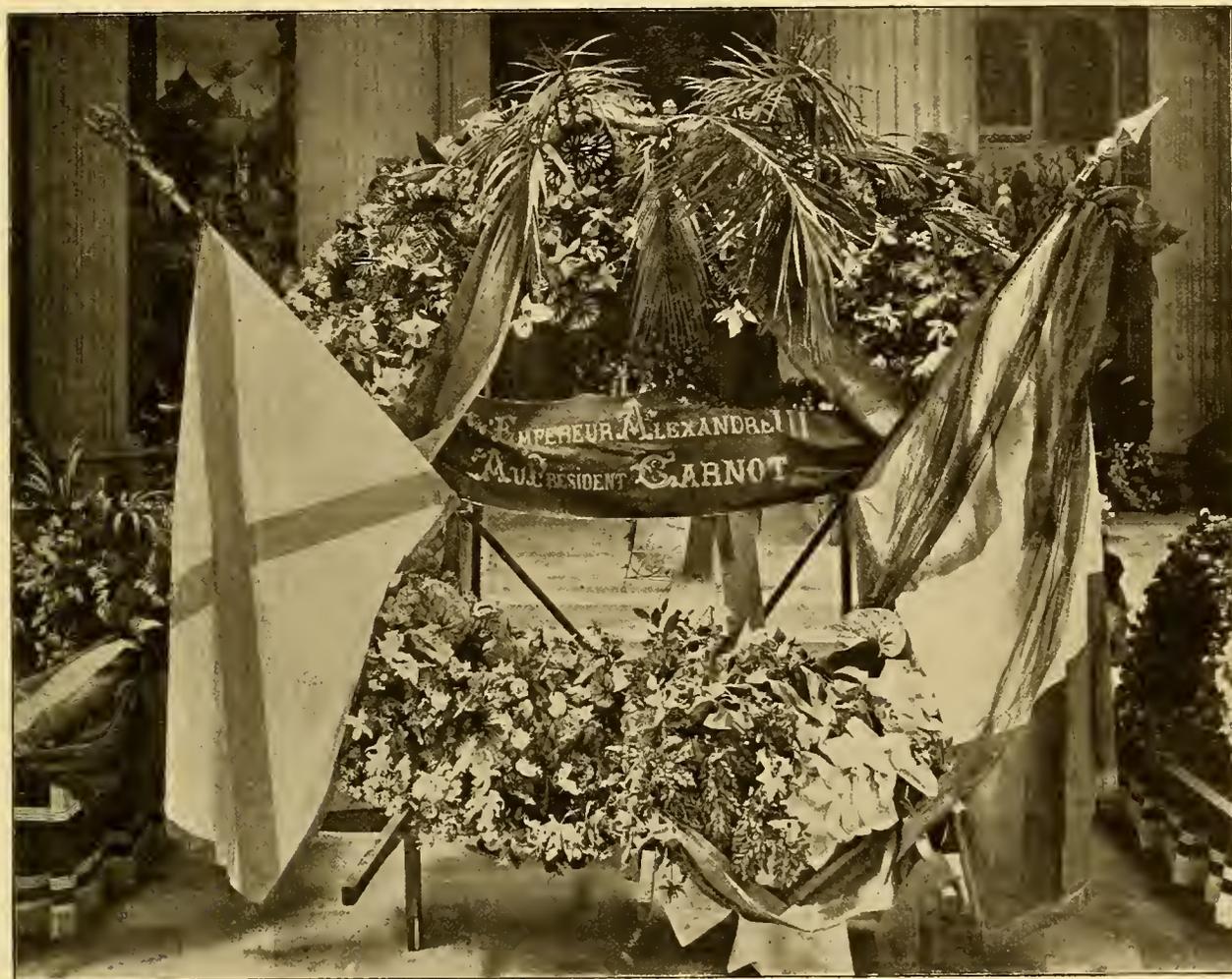
Achillea ptarmica, fl. pl.
Aster Bessarabicus, *A. grandiflorus*, *A. Novæ Angliæ* varieties, *A. Townshendii*, *A. Lady Trevellian*, etc.
Aconitum autumnale, *A. uncinatum*.
Allium mutabile, *A. stellatum*.
Amsonia salicifolia.
Anemone japonica varieties.
Anthemis tinctoria.
Astilbe japonica autumnalis.
Actea alba.
Begonia Evansiana (S.)
Boltonia latisquamæ, *B. glastifolia*.
Crinum Powellii (S.)
Centauria calocephala.
Centranthus ruber.
Colchicum autumnale, *C. speciosum*.
Crocus sativus, *C. speciosus*, *C. nudiflorus*.
Chrysanthemum sinense, pompons, Old Yellow, *Timbale d'Argent* and others.
Chrysopsis Mariana.
Chelone Lvonii, *C. obliqua*.
Clematis tubulosa, etc.
Ceratostigma Larpentæ.

Cooperia Drummondii.
Cunila Mariana.
Campanula carpathica.
Delphinium belladonna, *D. sinense* varieties.
*Eulalia*s and other grasses.
Eupatorium ageratoides, *E. altissima*, *E. Frazerii*, *E. cœlesterium*.
Euphorbia corollata.
Echinacea purpurea.
Funkia subcordata.
Geranium Wallichianum.
Gypsophila repens.
Gentiana angustifolia, *G. alba*, etc.
Helianthus angustifolius, *H. multiflorus*, *H. lætiflorus*, *H. orgyalis*, *H. Maximilanus*, *H. Miss Mellish*, etc.
Helenium autumnale.
Hibiscus moschutos, *H. militaris*.
Kniphofia corallina, etc.
Lobelia cardinalis, *L. syphilitica*, *L. s. alba*.
Liatris elegans, *L. graminifolia*.
Linum perenne.
Lotus corniculatus.
Papaver nudicaule.
Pyrethrum uliginosum.
Phlox decussata varieties.
Phygelius capensis.
Polygonum vacciniifolium.
Potentilla pyrenaica, *P. erecta*.
Prosartes Hookerii.
Oenothera missouriensis.
Rhexia virginica.
Ruellea cœleosa.
Rudbeckias.
Salvia azurea, *S. Greggii*, *S. prunelloides*, *S. Pitcherii*, etc.
Sedum latifolia, *S. Sieboldii*, *S. spectabile*.
Silphium asperrimum, *S. laciniatum*, *S. terebinthenaceum*, etc.
Silene Schaffta.
Statiche latifolia.
Solidago rigida, *S. Drummondii*, etc.
Spiranthes cœrua.
Sternbergia lutea.
Veronica longifolia, *V. subsessilis*.
Viola cornuta varieties.

Some of these plants continue to flower all through October in the milder parts of the country; in some seasons indeed the asters, crocus, colchicums, chrysanthemums, kniphofias, *Anemone japonica*, *Sternbergia lutea* and *ceratostigma* (plumbago) have been noted as late as November. But from October through the fall to Christmas there is a quantity of trees and shrubs, both native and exotic, which are so remarkable for the beauty of their foliage and berries, that they are well worth the attention of the florists, upon whom in future no doubt very much of the garden grouping of the country will devolve. Possibly you may find room to name a few of such.

FOLIAGE AND BERRY BEARING PLANTS FOR AUTUMN.

Acer cissifolium, *A. japonicum*, *A. Nikkense*, *A. rubrum*, *A. saccharum*, *A. tartaricum*, *A. Ginnala*.
Aralia spinosa.
Andromeda (oxydendron) arborea.
Ampelopsis virginica, *A. Vietchii*, *A. heterophylla*.
Arctostaphylos uva-ursa.
Actinidia polygama.
Akebia quinata.
Baccharis halimifolia fœm.
Berberis Thunbergii, *B. Sieboldii*, *B. chinensis*, *B. amurensis*, *B. Hokodata*, *B. vulgaris*, *B. aquifolia*.
Callicarpa purpurea.
Cornus florida, *C. paniculata*, *C. Mas* varieties, *C. sericea*, *C. Spathii*, *C. pubescens*, *C. sanguinea*, *C. stolonifera aurea*.
Cotoneaster vulgaris, *C. laxiflora*.
Cocculus carolinianus.



WREATH SENT BY THE EMPEROR OF RUSSIA
FLOWERS AT THE FUNERAL OF THE LATE PRESIDENT OF FRANCE.

Chionanthus virginicus.
Cydonia japonica.
Celastrus scandens.
Crataegus coccinea, *C. cordata*, *C. oxyacantha*, etc.
Colutea species.
Elæagnus species.
Euonymus europæus varieties, *E. atropurpureus*, *E. japonicus-roseus*, etc.
Hedera chrysocarpa. (S.)
Ilex opaca, *I. Sieboldii*, *I. glabra*, *I. lævigata-lutea*, *I. verticillata*.
 The European holly in some of its varieties stands well in S. Virginia, and some day perhaps a florist in that state will find leisure to produce hybrids between them and *Ilex opaca*.
Lindera Benzoin.
Liquidamber styraciflua.
Lonicera sempervirens.
Lycium barbarum, etc.
Lycasteria formosa.
Magnolia glauca, *M. hypoleuca*, etc.
Menispermum canadense.
Mitchella repens.
Nemopanthes canadense.
Nyssa aquatica, etc.
Pyrus arbutifolia, *P. prunifolia aurea*, *P. melanocarpa*, *P. nigra*, etc.
Philodendron japonicum.
Parrotia persica.
Rhamnus frangula, *R. carolinianus*.
Rosa rugosa, *R. rubiginosa*, *R. grandiflora*, *R. spinosissima picta*, *R. acicularis*, *R. cinnamomea*, *R. villosa*.
Rhus species.
Symphoricarpus vulgaris.

Symplocos cratægifolia.
Sambucus racemosus.
Solanum Dulcamara.
Smilax rotundifolia.
Viburnum dentatum, *V. dilatatum*, *V. lantana*, *V. lentago*, *V. acerifolium*.
Salix vitellina and its varieties, *Bultzensis*, *rubra purpurea*, etc. are well worth planting for winter. Let anyone once begin these special effects in their gardens, and they will always try to find material to enhance the beauty and value of their collections, and be sure to have imitators and admirers. The gardener and florist with a versatility of taste, and a general trade, will recognize such plants, (shrubs or trees) as his stock in trade, and appreciate the fact that the people delight in variety rather than monotony. He will know how largely upon him depends the future of the American "Rus in Urbe." He will study them one by one, and group them on his ground sometimes, even in a limited way, and as he does this artistically and harmoniously so will he create a demand for his stock and advertise it. JAMES MACPIERSON.

A Serious Blight of the Garden Pinks or Sweet Williams.

A recent visit to a florist establishment brought to mind again the appearance of an old enemy, namely, the leaf blight of the pink or sweet william. This blight is quite characteristic in producing upon the foliage large, well defined, somewhat

circular patches of an ashy brown color, which soon become dotted over with minute blackish specks, all of which is evident to the naked eye. These patches may be many in number, and as they grow become confluent, thus involving the whole leaf. In many cases the border of the speck takes on a purplish color, making the disease all the more conspicuous. As the leaves become thoroughly blighted they hang down upon the stem, but as the petiole clasps the stem the leaves readily fall away, thus giving the blighted plants a very unsightly appearance.

The fungus (*Septoria Dianthi*, Desm.) is not confined to the leaves, but produces similar patches upon the stem of the plant, and in that way increases the amount of its destructive work.

As this blight comes to its full estate about the time that the plants are through blooming it would seem as if it was not of any great account, but it must be borne in mind that this fungus is the same that is upon the carnation, another species of the genus *Dianthus*, and the spores which are produced in vast quantities upon the garden pinks may be the means of spreading the leaf blight to the carnations, which are usually grown in the same establishments with the pinks, so that it is necessary in order to keep one kind of ornamental plant free from disease to sometimes use measures for checking the same fungous growth upon some other plant which in itself does not

suff-r severely. It is interesting to note in this connection that the border of the spot varies greatly in the deepness of color; upon plants with pale bloom there is little or no reddening of the border, but upon those plants with purple, scarlet or deep pink bloom there is a corresponding presence of the same color in the spot border. The same is true of the spots upon the stems; this difference in the color of the border of the spot is common to the carnation, and these likewise indicate the color of the bloom.

BYRON D. HALSTED.

Convention Program.

COMMITTEE ON NOMENCLATURE.

The Committee on Nomenclature will meet at the Committee Room, Morris Guards' Armory on Monday evening, August 20. Members having matters which they wish to have brought before this committee should send them at once to the chairman, Mr. John N. May, Summit, N. J.

The Executive Committee of the Society will also be in session on Monday evening at the same place.

TUESDAY, AUGUST 21, 1894.

First Day, Opening Session, 9 to 11:30 o'clock, A. M.

Address of welcome, by the Mayor of Atlantic City.

Response.

President Anthony's address.

Reports—Secretary and Treasurer, Standing Committees, Special Committees.

Miscellaneous business.

Discussion of president's address.

AMENDMENT TO THE CONSTITUTION.

The following amendment to the Constitution is offered by Mr. H. B. Beatty:

Insert in last clause of Article V the words "any special or," so that it shall read: "Vacancies in the Executive Committee at any special or annual meeting, or in the list of Vice-Presidents at the annual meeting may be filled temporarily by the President during or previous to the first day of the meeting and until such regular officers can act"

PAYMENT OF DUES.

Members can pay their annual dues at the Convention Hall previous to the opening of the morning session, or at the close of that session, on the first day of the Convention.

Those who choose to do so may remit the amount of their dues to the Secretary at any time previous to the date of the Convention. The Society's badge and receipt will be sent in return.

N. B.—According to the By-Laws and custom of the Society, any person becoming a member continues a member until he asks for a release, or is suspended for non-payment of dues. Members having once joined the Society are thus liable for successive annual dues unless they notify the Secretary of their desire to withdraw from membership. All arrearages must be paid.

Any member desiring the suspension of this rule in his behalf should make application to the Executive Committee, who may make such abatement as they deem justifiable.

First Day, Afternoon Session, 2:30 to 5:30 o'clock.

Essay, "Some requirements for the elevation of our business," W. H. Taplin, Holmesburg, Pa.

Discussion.

Essay, "Comparative colors in relation to flowers," (Illustrated), F. Schuyler Mathews, Boston, Mass.

Discussion.

The question box.

WEDNESDAY, AUGUST 22, 1894.

Second Day, Morning Session, 9 to 11:30 o'clock.

Selection of place of meeting for 1895. Nomination of officers.

Essay, "The best methods of growing roses, and best varieties for present demands," John H. Taylor, Bayside, N. Y. Discussion.

Essay, "Orchids as commercial flowers," Wm. Mathews, Utica, N. Y.

Discussion.

Essay, "Cannas," John T. Temple, Davenport, Ia.

Discussion.

Election of State Vice-Presidents by state delegations.

Second Day, Afternoon Session, 2:30 to 5:30 o'clock..

Essay, "The evolution of the chrysanthemum," (under the auspices of the Chrysanthemum Society of America), Grove P. Rawson, Elmira, N. Y.

Discussion.

Essay, "Successful violet culture," Andrew Washburn, Bloomington, Ill.

Discussion.

Essay, "Aquatics," Wm. Tricker, Clifton, N. J.

Discussion.

The question box.

The Chrysanthemum Society of America will hold its annual meeting at the close of the afternoon session.

THURSDAY, AUGUST 23, 1894.

Third Day, Morning Session, 9 to 11:30 o'clock.

Election of officers.

Essay, "The classification and inspection of commercial plants," G. L. Grant, Chicago, Ill.

Discussion.

Essay, "Fertilizers and their application," Robert Simpson, Cromwell, Conn.

Discussion.

The question box.

Third Day, Afternoon Session, 2:30 to 5:30 o'clock.

Essay, "The value and importance of statistics, foreign and domestic," Benj. Durfee, Washington, D. C.

Discussion.

The balance of this session will be devoted to miscellaneous business, the first in order being the report of the committee appointed at the St. Louis meeting to consider the matter of fire insurance for greenhouses, of which Mr. E. H. Michel, of St. Louis, is chairman.

The annual meeting of the Florists' Hail Association will be held at the close of this session.

TRANSPORTATION.

The Trunk Line Passenger Association, which represents all the railroads entering New York and Philadelphia, has, in response to the customary application for reduced fares in favor of members of the Society of American Florists attending the Convention at Atlantic City, decided that it will be impracticable to apply the usual reduction on the certificate plan, owing to the low summer excursion rates in operation at Atlantic City. It therefore becomes necessary for those members intending to go to the Convention to make early arrangements with the lines over which they shall travel, endeavoring to travel in as large companies as possible, as in this way the most favorable rates will be secured. Delegates from districts represented by a few only should communicate with those having charge of the transportation from the most convenient large city or railroad center, and thus get the benefit of such low rates as may be secured from such points.

RECEPTION.

The chairmen of the various delegations en route to Atlantic City are requested to notify the chairman of the Reception Committee of the time of arrival of their trains, and members of that committee will be on hand to escort them to their hotels.

THE TRADE EXHIBIT.

The trade exhibition will be as heretofore a prominent feature. Every branch will be well represented. Very little room is left, and those desiring space who have not already secured it, should apply immediately to the superintendent of the exhibition, who will supply all information relative to arrangements, premiums, etc.

THE BOWLING CONTEST.

This will take place on the evenings of Wednesday and Thursday. Intending competitors in the club contest or in the individual competition

should communicate at once with the committee in charge of this feature.

ENTERTAINMENTS

On the fourth day, Friday August 24th, the members of the Society of American Florists will be the guests of the Florists' Club of Philadelphia. Full particulars of the programme for this day, also special arrangement for entertainment of the visiting ladies will be given at the opening session of the Convention.

AUXILIARY SOCIETIES.

The annual meeting of the American Rose Society will be held on Tuesday evening, August 21, the Florists' Protective Association on Wednesday evening, August 22 and the Telegraph Delivery Association on Thursday evening, August 23.

Come to the Convention

BY THE BARD OF KINGSESSING.

Come to the convention by the seaside,
And take a plunge into its restless tide;
Come from your tows on the hot western plain,
And rest for a time by the cool surging main.

Come! seekers of wisdom and store your mind
With knowledge of the most superior kind,
That will flow from our greatest leading men,
As they voice their works of the silent pen.

Come! Ye bowlers, from all over the land,
And in this the great test take a hand;
A cup for each contest will be the stake,
But he that wins must bowl a natural break.

Come! Our master has sounded the call,
To give instruction to we scholars all;
An answer to this question he will give—
Is it the eelworm or grower that shall live?

Come! hunters of pleasure, there's much in store;
A sail on the ocean not far from shore,
There is the merry-go-round, safe to ride,
But more pleasing is the toboggan slide.

Come to the convention by the seaside,
Lasses will be there in need of a guide,
Though many of them forty summers have seen,
They will all label themselves "only sixteen."

Lantanas in Bloom.

The lantanas certainly possess more merit than is generally afforded them; they have at least one strong point in their favor, viz., their long period of flowering. When grown as standards they are very attractive. I saw some standards the other day that were wintered in a structure that was kept at an intermediate temperature, and they are now (outside) completely studded with their clusters of bright colored flowers. Though so attractive on the plant the strong smell that pervades the whole of them, especially when bruised, is against their being employed in a cut state, at all events where they will be closely inspected. One point especially noteworthy, with regard to the blooms of lantanas, is the great change of color which takes place after they have been open for a day or two; some will on opening be bright yellow, which changes to deep pink. As one cluster will contain flowers in all stages of development the gradation in color is thus rendered the more pronounced.

Lantanas are of the easiest possible culture, and strike root easily from soft wood cuttings. Let them run up to the height required, but the lateral shoots must be kept pinched out until it is attained, and then leave five or six growths at the top, which will require careful watching as regards pinching until fine heads are attained. These standards may be kept for years, and will form handsome specimens for the lawn. Red spider is very apt to attack them, but frequent syringing will keep them in check. As regards varieties they are numerous; La Neige, white; Distinction, bright orange red; Magenta, purplish magenta; Pluie d'Or, fine light yellow, are all good.

A. J. E.

THE AMERICAN FLORIST and *Gardening* together to one address for \$1.75. Send orders to the American Florist Co.



THE CATAFALQUE IN THE PANTHEON.
FLOWERS AT THE FUNERAL OF THE LATE PRESIDENT OF FRANCE.

Chicago.

Old Pluvius seems to hold a special spite against the good citizens of this town. All around us the hearts of our fellow men have been gladdened by copious showers, but not a drop for Chicago. Or may be the rain god has taken offense at the persistency with which the weather clerk has predicted rain for this locality, and which evidently wasn't on the program. Meanwhile the drought continues and outdoor vegetation is suffering badly. The want of moisture at the roots is bad enough, but the effects of red spider is in many localities still worse and threaten to ruin violets and carnations unless relief comes speedily. The watering of outdoor stock in dry seasons is regarded as of rather doubtful benefit to the plants by many growers, but be that as it may there is no doubt that red spider will be kept in check by springing, which is evidenced by the condition of the fields where the sprinkler is used freely.

Market conditions are much the same as last week. There are quantities of good auratum and gladiolus coming in, which are in small demand however.

At a meeting of the Florists' Club held last Thursday Mr. A. G. Prince was elected financial secretary. A communication from the Philadelphia Florists' Club extending an invitation to participate in a prize shooting match to be held

at Atlantic City at convention time was read and accepted by the club.

Mr. Anton Then is adding two new greenhouses to his establishment near Bowmanville. Mr. Then is going into chrysanthemums quite extensively this year. A number of plants are being grown for the coming exhibition which are looking fine. Several benches containing about 5,500 plants grown to single stem look remarkably thrifty and promise first class blooms. Mr. T. also has a small pond on his grounds in which he is experimenting with some hardy varieties of nymphæas. The plants are doing nicely and next year the pond will be filled with the best varieties.

Boston.

Trade in cut flowers is unusually quiet here even for this time of the year. Local demands are very irregular and are confined mostly to funeral occasions, which are bound to occur whether times are good or bad. For the seaside resorts the customary calls are missing, and this department of the wholesalers' business promises to be a failure for this year. The street boys even are no longer any help as an outlet for the surplus, as the city authorities have curtailed their privileges again. This apparently does not help the local stores to any extent, for they are just as idle as they can be, and

they could be no worse if there were five hundred boys in the street.

Roses are, with a few exceptions, of miserable quality. Carnations are fair. There are a few longiflorum lilies coming in which sell at \$8 per hundred, not a bad price for the season. Sweet peas continue in oversupply, bringing in many instances not over 50 cents per thousand. Asters in all colors are abundant and cheap. Pink pond lilies, and in fact all fancy varieties of pond lilies, lack their former attractiveness apparently, and remain in the store windows until they close their petals permanently.

It was a very happy party that went to Milton August 2 on invitation of Mr. Wm. J. Martin, the gardener, to visit the grounds of Mr. N. T. Kidder. The grand beds of hardy herbaceous plants never looked so well. Jackson Dawson was one of the party, which is equivalent to saying that the trip through the grounds was an educational one, and everyone came away with the feeling that he had learnt something. Mr. Martin has some promising chrysanthemums which ought to be able to give a good account of themselves by exhibition time. In the houses the stove plants are in their usual fine condition and a fine lot of ericas received especial praise.

The display of aquatics at Horticultural Hall on August 4 was most attractive, Dr. R. H. Faunce and L. W. Goodell

showing fine collections. *Nelumbium Kermesina*, from Dr. Faunce was greatly admired and his seedling *Nymphaea odorata* received a complimentary notice. Other interesting features of the exhibition were the hardy phloxes from T. C. Thurlow, N. T. Kidder, Rea Bros. and F. B. Hayes, Mr. Thurlow's collection being remarkably fine, and extensive displays of tuberous begonias, gloxinias, asters, gladioli, hardy herbaceous and native flowers.

Atlantic City talk is in the air and the prospects are for a large and representative delegation from this vicinity. The Boston party will go by the Fall River line on Sunday evening August 19, joining the New York delegation on special train from Jersey City.

Mr. H. W. Gibbon of Hitchings & Co. was in town the past week. He has secured the contract to build a pretty range of palm and greenhouses for Mr. W. F. Burden at Newport.

Mr. W. A. Burnham of Lord & Burnham was also in town. This firm has just completed some fine houses for E. B. Clapp at Dorchester.

New York.

Roses as they come to the market now show unmistakably the severe effects of the hot weather. The great bulk of those being received are very poor indeed. There is but little demand for them, good or bad, excepting in the case of American Beauty, which it good sells fairly well. Asters are very abundant and will soon apparently rival the sweet peas in their ability to get in everybody's way. Steamer orders are few and far between this year, and the retail florists are disconsolate accordingly.

There is rejoicing on Canal street, abundant smiling all over the city, and the sun shines brighter in New Jersey, for a young Mr. Weathered has put in an appearance, and the illustrious lineage is now secure for another generation. Charlie can now go to Atlantic City, but he has grown in stature so that his old friends would scarcely recognize him. He would not change places now with any man on earth.

Siebrecht & Wadley have just finished planting nine houses of their new rose, Belle Siebrecht. Mr. Siebrecht says that the principal trouble he finds with it is to keep the flower buds picked off.

Alex. Burns has met with a sad bereavement in the loss of his youngest daughter, aged 1 year, 9 months, who died on July 30 after a few weeks' illness.

Philadelphia.

There has been quite a change in the weather, which is much cooler. We suppose the fellows that watch the thermometer in Washington are about to take their vacation. At any rate the relief is great and it is to be hoped there will not be another hot wave until next summer. Heavy rains have also fallen and there is much to be thankful for.

The summer trade is about as usual, with probably a little better business than common the past week on account of funeral work that seemed to be pretty well distributed among all the stores.

The "crape pullers" are becoming quite numerous. We would not be greatly surprised if they soon formed an organization to give them an air of respectability as it were. An advertisement appeared in a morning paper recently among the wants for a man to solicit orders for

floral designs for funerals. We have seen some pieces sent out by these gentry that were very fair, but most of their work is atrocious, only the cheapest and poorest flowers are used, and when at all scarce cape flowers are substituted and form the bulk of their stock in trade.

There would seem to be plenty of flowers for all the business there is doing; in fact most of the time the growers are lucky if they sell out. Any extra demand, however, uses up the stock on hand in no time and then it is the dealer who does the hustling. Valley has been scarce since the hail storm at Newport, and but for Lukens, of Burlington, and Edwards, of Bridgeton, there would now be a dearth of this popular flower. Cold storage valley brought at one time in this market \$12 per 100 and sold for \$2 per dozen at retail. Now \$4 per 100 is the wholesale price and it brings but \$1 per dozen over the counter.

In speaking to a grower recently he said the most expensive department of his place was the dump. What it cost him to keep this up every year would pay his coal bill. He believed in keeping his stock fresh, clean and up to date in variety and did not hesitate to put sick plants on the dump rather than nurse them, or discard old varieties for new ones if he saw merit in them. How often plants are seen occupying good table room that ought to be on the rubbish heap. It may seem like throwing money away, but greenhouse room is valuable and it is better to stop the loss at once and try to catch up on the next crop.

There is quite a good deal more that might be said about the social part of the convention, but while the arrangements are nearly all perfected so much depends on the weather that it is not certain just how everything will be carried out.

There is one thing that will interest the bowlers, and that is that the alleys on which the match is to be played are to be made regulation. The pins are to stand twelve inches apart from center to center. The Phila. club will furnish a lot of balls in addition to those on the alleys, and other clubs can send what they choose, only none must be over 27 inches in circumference.

To the fishermen we would say that all kinds of the finny tribe are biting better than for several years past and good sport is the result.

The meeting of the Florists' Club last Tuesday evening was a large and enthusiastic one. Every chair was taken and every one seemed very much interested in the proceedings. The large attendance was partly owing to the near approach of the convention, but the fact that President Lonsdale was to read a paper entitled "A few notes about commercial orchids," was responsible for the greater part of the gathering. His paper was all that was expected of it, a very practical one, while at the same time it was instructive and entertaining. He was voted the thanks of the club and the paper was directed to be given to the committee on publication.

The principal time of the meeting was taken up by reports of the various committees. Nearly all have their work up to date and are very enthusiastic over the outlook.

John Burton, who has charge of the shooting match, is doing all he can to get a team together to represent Philadelphia and is to have a lot of the boys up near his place on Friday next to try their hand and see what they can do.

Mr. Westcott, of the bowling committee, had all the prizes on exhibition

and they were much admired. He thinks from the entries that he has received and from other clubs that are sure to be on hand that there will be at least ten clubs in the contest. He expects some fine scores to be made and thinks there will be many surprises.

The entertainment committee report that the entertainment on the Iron Pier Friday evening will be of a social nature and everybody will be made to feel at home.

A fine gavel and block was presented by the committee having this matter in charge. The gavel is of dogwood from the late Geo. W. Childs' place at Wootton, and the block from a piece of wood taken from the Michigan log cabin on same place. The gavel has three silver bands and together with the block makes a fine and useful ornament for the president's desk.

There was a special meeting of the club called for August 14 to take any further action that might be necessary in convention matters.

There will be a very large delegation from this city, and it is hoped that the attendance at the convention will be larger than ever before. K.

St. Louis.

The welcome rain of last week has had the effect of livening things up wonderfully and the change in temperature has been most marked, the nights being real cool, the glass going to 58° and 60° right along. Trade however, or what there is of it, remains the same, the only event of importance being the addition by Mr. Wm. Ellison of a wire work department to his wholesale cut flower store, this being something he has long contemplated.

The bedding in Forest Park looks well, there being more of it this season than ever before, and it has been done with much greater taste. The indications are that it will be increased from year to year, as they are adding the present season one 50 by 18 equal span house to the three they already have; the latest to be used for palms and the other large plants used during the summer in the out door work.

The 21x96 foot, three-quarter span house, building at Shaw's Garden, has recently been completed; the finishing touches were delayed over a month owing to the half inch slate of which the bench bottoms are made, being tied up in the strike on its way from the quarries in Pennsylvania. The house is built in three sections and so arranged that different temperatures can be maintained in each. Mr. Gurney expresses himself as being pleased with the work.

Mr. Huckle of Belleville has also been troubled on account of the strike, his new rose house being finished with the exception of the ventilating gears, which are somewhere between here and the foundry.

Julius Koenig is erecting an 18x80 foot three-quarter span house, in place of two smaller ones that have been torn down, he reports everything as being quiet in North St. Louis.

Busch and Purzner, of Jefferson City, are erecting an 80x20 foot, three-quarter span house. It is to be heated with hot water under pressure.

An indiscreet letter from one of our members to a fellow craftsman in Cincinnati, and the unexpected use to which it was put, has rendered useless the work accomplished in securing reduced rates to the convention. At present all negotiations are declared off by the railroads,

Hotels at Atlantic City, N. J.

NAME.	PROPRIETOR.	SITUATION.	CAPACITY.	RATES PER WEEK.
Albemarle,	C. E. Cope,	Cor. Virginia & Pacific Aves.	150	\$8.00 to \$14.00.
Amole,	Mrs. S. C. Amole,	21 South, South Carolina Ave.	40	8.00 to 12.00
Ardmore,	Mrs. Story,	166 South, Virginia Ave.	125	8.00 to 12.00
Baltimore Villa,	Mrs. Hallahan,	120 South, Tennessee Ave.	40	8.00 to 12.00
Bellevue,	Mrs. McClure,	Ocean End New Jersey Ave.	100	10.00 to 15.00
Brevort,	Mr. Norris,	18 South, South Carolina Ave.	60	8.00 to 12.00
By-the-Sea,	"	Cor. Mass. & Pacific Ave.	50	8.00 to 12.00
Carlisle,	Mrs. Hotine,	102 South, So. Carolina Ave.	150	8.00 to 12.00
Clifton,	Mrs. Cope,	Cor. Atlantic & Conn. Aves.	50	8.00 to 12.00
Edgewater,	Miss Parkenson,	123 South, So. Carolina Ave.	50	10.00 to 12.00
Castlemere,	Mrs. M. Muldune,	106 South, So. Carolina Ave.	30	8.00 to 12.00
Epworth,	M. M. Downs,	121 South, So. Carolina Ave.	40	8.00 to 12.00
Glenville,	Mrs. Hopkins,	South Tennessee Ave.	100	8.00 to 12.00
Hewitt,	W. S. Ives,	29 south Pennsylvania Ave.	60	10.00 to 12.00
Berkeley,	Bew Bros.	Ocean End Kentucky Ave.	150	12.00 to 18.00
Elberson,	Mrs. M. J. Eckert,	Cor. Tenn. & Pacific Aves.	200	10.00 to 12.00
Hoffman,	Mrs. Calloway,	South Pennsylvania Ave.	200	18.00 to 20.00
Wellington,	H. S. Milnir,	South Kentucky Ave.	300	15.00 to 20.00
Wiltshire,	E. L. Chandler & Co.	South Virginia Ave.	150	15.00 to 25.00
Lehman,	Miss Lehman,	114 South Penna. Ave.	200	15.00 to 20.00
Lelande,	S. Wagner,	Mass. Ave. and Ocean,	150	15.00 to 25.00
Louella,	Mrs. Carver,	138 South Tennessee Ave.	40	8.00 to 12.00
Monterey,	E. K. Newcomet,	Virginia Ave. Ocean End,	100	12.00 to 20.00
Ocean Villa,	Mrs. Schernberger,	So. Carolina & Pacific,	50	8.00 to 12.00
Park Cottage,	M. B. Walker,	1302 Pacific Ave.	30	9.00 to 12.00
Raymond,	Mrs. M. D. Evans,	South Virginia Ave.	75	12.00 to 18.00
Saratoga,	Mrs. S. A. Haines,	South Carolina Ave.	40	10.00 to 12.00
Upton,	Mrs. Fothergill,	South Tennessee Ave.	50	8.00 to 12.00
Vinedole,	Mrs. Frambes,	South Pennsylvania Ave.	40	8.00 to 12.00
Windsor,	G. Waters & Son,	South Illinois Ave.	250	18.00 to 30.00
Fraymore,	W. W. Green & Co.	South Illinois Ave.	250	18.00 to 30.00
Brighton,	F. Hensley & Son,	South Indiana Ave.	300	20.00 to 35.00
Dennis,	Joseph Barton,	South Michigan Ave.	500	18.00 to 30.00
Shelburne,	J. W. Southwick,	South Michigan Ave.	200	18.00 to 30.00
Haddon Hall,	Leeds & Lippincott,	North Carolina Ave.	250	18.00 to 30.00
Chalfonte,	Mrs. Roberts & Son,	North Carolina Ave.	250	18.00 to 30.00
Kenilworth,	Mrs. Grubb,	Kentucky Ave. Beach End,	150	15.00 to 20.00
United States,	J. S. Davis,	Maryland & Pacific Aves.		Special rate \$2.50 & \$3.00 per day.
The Stratford,	(European plan),	Beach End Kentucky Ave.	\$1 50, \$2 & \$2.50 per day; 65 rooms.	

who declare that nothing but full rates both ways will be sold. This decision came in the nature of a disagreeable surprise to a party of seven that had decided to leave on the 6th, spending some time on the coast before the convention. As soon as it was found that the rates given were declared off the party dwindled to three. When it is understood that the falling through of negotiation costs each member attending the conventions \$22.50 more than it otherwise would have done as well as placing the florists in the eyes of the railroad making the rate as untrustworthy and not to be depended on the vigorous kick and severe comments heard from all can be understood. It is extremely doubtful if any thing can be done in time to go to the convention and if better rates than those offered at present cannot be had it is extremely doubtful if there will be enough St. Louisans in Atlantic City to compose a bowling team. R. F. T.

St. Paul, Minn.

Every line of business here is dull, and the florists' especially so. In a retail way quite a good many flowers are used for funeral work, but outside of an occasional order in that line nothing whatever is selling. The growers especially are feeling glum, but as one of them recently remarked, "What can you expect when strikes, protracted drouth and congressional dilly dally upset all calculations."

Rose planting is completed and mums are well along. Growers have taken advantage of the dull season to get their houses in shape for another season's business, and places visited are looking better than for several years past.

In roses some fair Meteor and La France are being cut. Kaiserin retains its good qualities and with the increase in the size of the blossoms as the season advances promises to fulfill the predictions made for it, viz., the best white rose yet introduced for summer forcing. Some Beauties, new crop, are being cut, but the quality is poor. Sweet peas are nearly gone, the intense heat and drouth having ruined them. Gladioli are looking fairly well, though the spikes are smaller than usual. In common with everything else they are suffering from the lack of rain. Carna-

tions are standing the season well and forming good stools, though a good rain would be beneficial to them. Violets outside are small but healthy.

Vegetation throughout the city has suffered terribly. Shade trees are dying by the hundreds, while green lawns are a luxury. Our florist friends who are without city water feel the need of it more keenly than ever. Hydrangea paniculata is now in bloom and with its wealth of blossoms in long drooping clusters emphasizes its worth more strongly than ever. As a late summer flowering shrub it stands without a peer in this section. Some fine clematis are also seen in full bloom, proving that with proper care and protection they can be grown as successfully here as in more favored localities.

We regret to say that St. Paul will not be well represented, if at all, at the convention. This is to be deeply regretted, as many practical points and hints will undoubtedly be learned at the meeting.

Brother Taplin in his very able article in your last issue hits the nail on the head in advising florists to organize and maintain prices. If we had more of such sermons daily it would be a benefit to the craft at large. Right here in these twin cities we have reaped some of the fruits of cut prices, and yet florists attributed poor sales, etc. to department stores. While it should be the aim of every grower to sell all his stock a little judicious advertising in local papers and "bargain days" for surp'uses would find everything sold at the end of the season and no very bad cut made at any time.

We note but very few double white and pink hollyhocks and no summer grown Bermuda lilies. For funeral work these are very fine and should not be overlooked another season. With a little extra protection hollyhocks can be wintered over nicely. FELIX.

Toronto.

There is some stir in florist circles over the alleged selling of plants and cut flowers by a public institution just outside the city at less than market prices. A committee was appointed by the G. and F. Association to inquire into the matter, and a meeting was held, which the gar-

dener of the institution said he would attend and make satisfactory explanations, but as he did not turn up the meeting adjourned after waiting for an hour not in the most amiable state of mind, and will probably interview the manager or directors. At present this institution has only a small area of glass, but there is a rumor that it intends to put up much more. Some of the boys think there is nothing in the whole business worth kicking about, and others think that though it may be only a small matter now it might develop into a big affair if not nipped in the bud.

Cattleya Dowiana is now flowering with Mr. Vair at Chestnut Park, and Cattleya chrysozona is blooming at the Normal Schools; the latter is a plant imported three years ago, and this is the first time it has shown bloom. It is not mentioned in Nicholson's Dictionary, but a colored plate of both may be seen in "Reichenbachia," if anyone is so fortunate as to be able to get access to that magnificent publication. Neither plates do justice to the originals, however; the purple in the original is much brighter and darker, and the veining finer and more distinct.

Very pleasant weather now—not too hot, not too cold, now and then a shower, just right. E.

Denver.

Business very dull.

Ninety days until the chrysanthemum show.

Every one is complaining of grasshoppers. They are eating up nearly all outside crops.

Foreman Beach, of Mauff's, wears a very satisfied smile when the subject of chrysanthemums is mentioned.

It is reported that J. L. Miller Floral Company have something in the way of a surprise to spring on the boys at our next chrysanthemum show.

The board of directors of the Denver Florist's Society have apportioned the prizes for the coming show. They have offered eight hundred dollars in all, besides numerous special premiums which have been offered by individuals.

The Park Floral Company, O. A. Wiggam, president, John L. Russell, manager, have erected four 18x100 houses, and one 11x100, on the ten acres recently leased by them from the Colorado State School Board. It is their intention to erect five more 11-foot houses in the near future.

The Colfax Floral Company are erecting a chrysanthemum house 125x23, in addition to their already large plant.

Harrison H. Given has completed rebuilding his rose houses at Lincoln and Alameda avenues, and has a large crop of roses and other cut flowers well under way for the coming season.

Mr. A. M. Lewis, the manager of the Colfax Floral Company's store, is taking a short vacation at Evergreen, Colo., in the heart of the Rockies. He took four pounds of smoking tobacco, two cases of beer, a gallon of bottled hardware, four fish books, a loaf of bread, and a can of sardines with him, and announced his intention of depopulating Bear Creek of its finny inhabitants; hence the large amount of "bait." Mrs. Lewis will endeavor to accommodate the large rush of patronage the store will have during his absence.

Mr. C. J. Hurt, Harman, Colo., has completed a new range of greenhouses, 7,000 square feet of glass in all, which will be devoted to raising choice cut flowers and bulb forcing.

A visit to Gallup's greenhouses at University Park, shows a remarkably fine stand of roses. Mr. Adams, foreman of this place, makes a specialty of Woottons, growing them so perfect that they readily command "Beauty" prices. Mr. Adams does not have a visible growth of specimen chrysanthemums for the show, but made the remark to your correspondent that "it was not always necessary to grow a lot of plants to grow to perfection." There is a suspicion among the boys that Adams keeps his best plants in the coal hole out of sight of visitors.

Harrison H. Given has returned from a short vacation at Deansbury, in Platte Canon, where he and his wife have been for several weeks past on account of Mr. Given's bad health.

A visit to Wolhurst, Senator E. O. Wolcott's Colorado home, at this time of the season, shows a sight not to be seen any place else in the west. A more complete experimental grounds could not be imagined. Mrs. Wolcott, who is an ardent admirer of all that is horticultural and floricultural, has spared no pains or money in securing plants and shrubs from all quarters of the globe, and, with the able assistance of Superintendent John Berry, the result is that after three years growth the grounds present a scene to delight the eye of any admirer of the goddess Flora.

Denver florists have requested your correspondent repeatedly to call the attention of the outside world to the fact that Denver already has four times as much glass devoted to growing cut flowers, in proportion to the number of inhabitants and tributary country, as any city in the United States. A large amount of glass that has been built in the last two years is paying poorly, if at all, and it is to discourage the investment, or the thought of investment, of eastern capital in the florist's business in this city that this item is written. If any florist is thinking of Colorado, or Denver in particular, as a field of new operation my advice is to look the ground over personally before you decide to invest.

The board of directors of the Denver Florists' Society are anxious to receive exhibits of cut chrysanthemums from growers in any portion of the United States at their coming chrysanthemum show November 7. All such exhibits will be cared for and staged by the committee and the length of journey they have undergone will be taken into consideration in judging them for prizes. The prize taken last year by E. G. Hill & Co., of Richmond, Ind., for twenty-five best blooms, is offered again this season, and it is hoped that the competition for this particular prize will be close and that many entries will be made in this class, as the premium is well worth competing for, as Messrs. Hill & Co. will testify. It is also hoped that the premium cup offered by Harrison H. Given for the best seedling chrysanthemum not exhibited before this season, will be liberally competed for. Any person desiring information as to our show will receive the same by addressing Adam Kohankie, box 275, South Denver, Colo. H. H. G.

Cleveland.

J. C. Gooding recently brought suit against Harry Gordon, proprietor of the Gordon Greenhouses, for \$298 back salary. The defense claimed that while Mr. Gooding had charge of the houses stock so depreciated that the flowers grown would not bring first-class prices as they should in an open market. The jury re-

turned a verdict in favor of Mr. Gooding for the full amount.

The writer paid a visit to the Cushman gladiolus farm this week. It is located in Euclid, O., and is accessible by the electric cars from this city. There were gladiolus in all stages of growth, from the little infant to the great grandfather, and acres of them in full flower. One lot of seedlings of Mr. Cushman's own saving were exceedingly fine and of great promise, there being so many fine white, pink and yellow flowers among them. Mr. C. has secured space at the forthcoming convention and will make an exhibit of cut blooms. L. F. D.

New Notes.

DWIGHT, ILL.—Aaron Good is starting in the business here.

WATERTOWN, WIS.—Loeffler Bros. are erecting a new house 10x80 for violets.

ALLIANCE, O.—Our season's trade was good. No cuts in prices and collections good.

ELMIRA, N. Y.—L. A. Lacharme is building 4 greenhouses, each 125 feet long, for growing cut flowers.

PAINESVILLE, OHIO.—Wm. C. Werner has erected three houses and entered the trade here as general retail florist.

CINCINNATI, O.—The assignee of Chas. J. Jones, Jr., reports it doubtful if the general creditors will receive any dividend.

LAKE GENEVA, WIS.—The Button Bros. are together again and the firm name has been changed back to Button Bros. & Co., as it was before the change last month.

DENVER, COLO.—The Colfax Avenue Floral Co. is adding two new equal span houses 25x125 for carnations, also lengthening their propagating house by a 25-foot addition.

SACRAMENTO, CAL.—Spring plant trade was about 25% less than last year. Collections more difficult. New florists that have started during the past year are C. B. Strong & Co. and H. McWilliams.

PEORIA, ILL.—The wife of Mr. James C. Murray, the florist, died July 25, after many weeks of suffering. The funeral was held Friday, July 27. Mr. Murray has the sympathy of his many friends in the trade.

WATERVILLE, N. Y.—Stewart Ritchie for the last nine years with William Osborne, has bought a place at Newport, R. I., and will move there on the first of August. He will run a regular greenhouse business.

PITTSBURG—The third annual picnic of the Putsburg and Allegheny Florists' and Gardeners' Club will be held at Ross Grove August 9. The committee of arrangements is composed of Messrs. J. Bader, E. C. Reineman and E. C. Ludwig. A good time is assured.

READVILLE, MASS.—Walter Butler has just added a new greenhouse 65x25, connecting it with two others 100 feet long, also a boiler house with two stores overhead 32x16. He has built 1 200 running feet of benches and will grow this season lilies, chrysanthemums, Jacqs and carnations.

DENVER, COLO.—Edward W. Pike, well known to horticulturists of Indiana and Illinois, died July 26 near this city from

injuries resulting from a fall from his buggy. Mr. Pike was 78 years of age and had lived in the neighborhood of Chicago for nearly 50 years. He was one of the pioneers in horticulture in the west.

LOUISVILLE, KY.—The florists of Louisville have decided to hold their fifth annual chrysanthemum show November 6 to 10 inclusive. Although the prospects for financial success are not very flattering it is to be hoped there will be no great loss. Full information may be had by addressing the secretary, Mr. H. Nanz, 582 Fourth avenue.

BROOKLYN, N. Y.—Mr. Joseph Sormani, a young Dutch florist, who three years ago settled in Flatbush, after coming here from California, where he had charge of extensive vineyards, will shortly open a large floral establishment on Fort Hamilton avenue, near Greenwood Cemetery, in association with Mr. Emile Bunnekamp, a Holland bulb importer.

SAGINAW, MICH., EAST SIDE.—The firm of A. Grohmann & Sons will hereafter be known as Grohmann Bros. The two junior members of the old firm, Messrs. Edward A. and Albert A., compose the new firm. They are erecting three new houses 18x100 and one 18x50, also boiler house and dwelling at their new grounds, 3369 South Washington avenue, opposite Forest Lawn Cemetery.

SPRINGFIELD, MO.—Mr. Rudolph Koepfen has sold out to Messrs. E. Koepfen and W. A. Staley, who will continue the business under the firm name of Koepfen & Staley. They have torn down one old house and have added two new houses for roses, one for carnations and two for general plants. They will also have about 2,000 feet of glass on hotbeds the coming winter. Their place is at 1205 to 1213 Boonville street.

Chicago to Atlantic City.

The Chicago Florist Club has secured a special low rate to the S. A. F. convention at Atlantic City, over the Pennsylvania railroad. Train leaves Chicago at 3 p. m. Sunday, August 19, passing over the Allegheny Mountains in daylight and reaching Atlantic City Monday evening. Florists in the west and northwest who wish to join the party are cordially invited to do so. Berths may be reserved and further information obtained by addressing the chairman of the Chicago Club's committee, Mr. G. L. Grant, 322 Dearborn street, Chicago.

Catalogues Received.

Chas. D. Ball, Holmesburg, Philadelphia, Pa., palms, ferns and decorative plants; Mrs. T. B. Shepherd, Ventura, Cal., seeds, plants and bulbs; Edwanger & Barry, Rochester, N. Y., pot grown strawberries; Schleez & Fottler, Boston, bulbs and supplies; W. Baylor Hartland, Cork, Ireland, daffodils; J. L. Dillon, Bloomsburg, Pa., roses; Peter Van Velsen & Sons, Houtvaart, Holland, bulbs; E. V. Teas, Irvington, Ind., nursery stock.

AT THE California Mid-Winter International Exposition, San Francisco, the Sunset Seed and Plant Co. were awarded gold medals for sweet pea seeds, sweet pea blossoms, ornamental and decorative plants, also for garden, field and flower seeds and horticultural requisites.

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

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant ads. not admitted under this head.

SITUATION WANTED—By a first-class assistant; S thoroughly competent; 4 years in commercial place East preferred (Philadelphia). Address ASSISTANT, care American Florist.

SITUATION WANTED—By a young man, 18 years, in or around greenhouses, 5 years' experience; good references. Address FLORIST, 1103 Blair Ave., Scranton, Pa.

SITUATION WANTED—On or before Sept. 1, by competent florist as first assistant or to take charge. Best of references. For particulars please address with your terms to FLORIST, care Mr. Selby Myers, St. Joseph, Mo.

SITUATION WANTED—By a young florist 25 years of age to take charge of a shipping department; thorough knowledge in executing all kind of mail and express orders; first-class references. Address H. R., care American Florist, Chicago.

SITUATION WANTED—By a practical gardener and florist; commercial or private place; 16 years' experience in all branches; sober, reliable. Best references. Address GARDENER, care John Locher, Frankly St., Guttenberg, N. J.

SITUATION WANTED—By a young man, 26 years old; German, can speak English; in commercial place; well up in roses, carnations, violets, stove and greenhouse plants. First-class references. Address BERNHARD SCHELLER, box 147, Soldiers' Home, Leavenworth, Kan.

SITUATION WANTED—By a competent German florist; have had twenty years' experience in the business; good rose and general cut flower grower and plantman; also good decorator and designer. Will work on percentage or wages. Please state wages. Address A. M., care American Florist.

SITUATION WANTED—By gardener and florist, experienced in growing roses, carnations, violets and mushrooms for the trade; also competent to grow general stock and take full charge of private or commercial place; age 32, obstainer, good references. State particulars, with wages, etc., to G. AND F., care American Florist.

SITUATION WANTED—A practical florist and gardener of executive ability and experience on horticultural matter, fully posted on all the routine and requisites of first-class commercial places, inside and outside matter, general propagation, including nursery stock, such as roses, shrubs, conifer, etc.; want situation accordingly; best references. Address PRACTICAL, care Am. Florist, Chicago.

WANTED—A second-hand boiler; must be in fair condition; state kind; must be cheap. Address LOCK BOX F, Lake Geneva, Wis.

WANTED—A reliable man to take wholesale place on percentage near Baltimore; a good chance. Address BOX 127, Westminster, Md.

WANTED—Greenhouse assistant, steady and reliable. State experience, and wages per month with board. GEO S. BELDING, Middletown, N. Y.

WANTED—Florist, reliable, sober, for roses and general stock. State terms and experience. J. T. WILLIAMSON, Prop'r La Rose gardens, Memphis, Tenn.

WANTED—To correspond with a young man who is a good decorator and designer, competent to fill position in a retail store. Address WESTERN, care American Florist, Chicago.

WANTED—A young man to assist in general fruit forcing establishments; must have been in greenhouses before; one willing and obliging and wishing a steady place. Address FOREMAN, River View, Concord, Mass.

WANTED—By experienced grower of roses, etc., well acquainted with all the requirements of retail and wholesale trade, wishes to take charge of commercial place for percentage of profits, or would like to lease. If on easy terms. Address H. P., care American Florist, Chicago.

FOR SALE CHEAP—Large second-hand florist's Ice Box, value about \$75. VAUGHAN'S SEED STORE, 88 State Street, Chicago.

FOR SALE OR RENT—Greenhouse, 2000 square ft. glass. For particulars inquire of THEO NOEHLE, Green Bay, Wis.

FOR SALE—1500 feet 4-inch pipe—Hitchings. Price on application. P. R. QUINLAN & Co., 904 W. Genesee St., Syracuse, N. Y.

FOR SALE OR RENT—15,000 or 30,000 square ft. of glass. For particulars inquire of A. T. JACKSON, Station X, Chicago.

FOR SALE CHEAP—Large, new hard wood and glass florist's Refrigerator. Used at World's Fair. Cost \$250. VAUGHAN'S SEED STORE, 146 & 148 West Washington St., Chicago.

FOR SALE—In northern Indiana, greenhouse plant of 4,500 feet of glass in greenhouses and sash, 1 1/2 acres land, good general stock of plants, roses, carnations and chrysanthemums; greenhouses and house heated with steam. INDIANA care Am Florist.

FOR SALE—3,000 feet glass; sales up to date \$2,000 cash; sales last year \$2,800 cash. Division station on Union Pacific railroad; sugar factory, and Union Pacific machine shops; city of 10,000; houses built two years; heated by steam; well stocked. W. H. JONES, Grand Island, Neb.

FOR SALE—On account of sickness, greenhouses of 3500 feet of glass, heated by steam; all in good condition. Also dwelling house and ground. Good retail cut flower and bedding plant trade. 600 Inhabitants; no other florist; three minutes to railroad station; thirty minutes to Broad street station, Philadelphia; 34 trains daily. Or, will sell greenhouses and give a lease on dwelling house and ground. Only those meaning business need to apply for particulars. Address ROBERT CRAIG, 49th and Market Sts., Phila., Pa.

WOODBURY GREENHOUSES ARE STILL FOR RENT.

If you are the right man, and mean business, you will receive extra inducements in renting the greenhouses. For description see AMERICAN FLORIST for June. J. H. LUPTON, Woodbury, N. J.

FOR SALE OR RENT. Two large greenhouses 101 feet long by 18 feet wide, containing 5000 feet of glass; built two years ago, with all modern improvements, by the late John F. Nitterhouse, practical florist. Greenhouses situated 1/2 mile from town; convenient to two rail roads, and stocked with roses, carnations, etc. Possession given Oct. 1st. For further particulars address MRS. S. J. NITTERHOUSE, Waynesboro, Franklo Co., Pa.

Greenhouses to Rent. At Moorestown, Burlington Co., New Jersey, nine miles from Philadelphia, on railroad, four houses, 10,000 feet of glass, two boilers. Spendid opportunity. JOS. T. SULLIVAN, Moorestown, N. J.

For Sale or Rent. One of the largest and most successful plants in the State of Ohio, consisting of about 50,000 feet of glass, with three or six acres of fine land; houses all in the best of order, and as good as new; adapted to cut flowers. Reasons for selling, the increasing demand for the Standard Ventilating Machines demands more of my time than I can possibly give it and ruin the florist business. For particulars address E. HIPPARD, Youngstown, Ohio.

FOR SALE. Wholesale and retail ornamental nursery and greenhouses, in the best residence city of Southern California. Fine business location and complete stock, fixtures, etc. A rare opening for the right man with moderate capital. For particulars address "CALIFORNIA," care Am Florist.

FOR SALE. Six (6) greenhouses, two hot water boilers, about 2000 feet 2-inch wrought iron pipe, valves, etc., lot of hotbed sash, frames, benches and about 35,000 flower pots. The entire plant will be sold at a very low cash price, as the whole must be removed off the premises before Sept. 1st. For particulars address L. R. MUNN, Station C, Brooklyn, N. Y.

ATLANTIC CITY, N. J.
United States Hotel.
Special Rates to Florists: \$2.50 (two in room), \$3.00 single.
FIRST-CLASS APPOINTMENTS.
Engage rooms in advance.

SMILAX. SMILAX.
Very strong, clean, healthy plants from 2 1/2-inch pots, \$2.50 per 100; \$20.00 per 1000.
Address J. G. BURROW, Fishkill, N. Y.
Mention American Florist.

YOUNG PALMS FOR FLORISTS' USE CHEAP TO MAKE ROOM.
Size pots. Height Per 100
Kentia Belmoreana 3-inch 12 to 15 in. \$29.00
Forsteriana 3-inch 12 to 30 in. 39.00-25.00
Arecia Baueri 4-inch 18 to 24 in. 25.00
Scaevola elegans 3-inch 18 to 24 in. 20.00
Phoenix reclinata 3-inch 8 to 10 in. 20.00
Pandanus utilis 2 1/2-in. 8 to 10 in. 15.00
All stock is in healthy condition and ready for shipment. 50 at 100 rates.
MENDENHALL GREENHOUSES, Minneapolis, Minn.
Mention American Florist.

THE AMERICAN FLORIST CO.'S DIRECTORY REFERENCE BOOK

FOR 1894
CONTAINS THE FOLLOWING:

1. The names and addresses of the Florists, Nurserymen and Seedsmen of the United States and Canada, the exact branch of the business each is engaged in being indicated.
2. A separate list of firms that issue catalogues, the space devoted to each branch of the business to each catalogue being also given.
3. A list of the names and addresses of superintendents of leading parks in the U. S. and Canada.
4. A list of the principal cemeteries of America at which the arts of the landscape gardener and florist are used in beautifying the grounds.
5. A complete, alphabetically arranged list of Roses in commerce in America with class, habit of growth, date of introduction, name of introducer, and brief, accurate descriptions of the flower of each. Synonyms are also plainly given.
6. A complete, alphabetically arranged list of Chrysanthemums in commerce in America, with class, and brief, accurate description of each. Synonyms are noted and varieties that are very popular with American growers are designated by a star, and this year's introductions by a dagger.
7. A complete, alphabetically arranged list of the Carnations in commerce in America, with name of introducer, date of introduction and brief, accurate description of each.
8. Seasonable Hints for the year, arranged in weeks, written by Mr. William Scott, and covering every detail of a general florist business. This is decidedly the most valuable contribution to the literature of the trade ever published. It is written in a plain, practical way, by a man who knows what he is talking about.
9. A historical sketch of the Society of American Florists from its organization to date, including officers for each year and lists of essays read at each meeting, with other information of interest.
10. A similar historical sketch of the American Association of Nurserymen.
11. A similar historical sketch of the American Carnation Society.
12. A similar historical sketch of the American Seed Trade Association.
13. Similar historical sketches of the Florists' Hail Association of America; of the National Chrysanthemum Society of America; of the Florists' Telegraph Delivery Association.
14. A complete list of all National and Local Trade Organizations, with names and addresses of principal officers, time and place of meetings, etc.
15. Statistics of Commercial Floriculture in the U. S. from the last census.
16. Statistics of the Nursery Industry in the U. S. from the last census.
17. Statistics of Seed Growing in the U. S. from the last census.
18. A list of Leading Horticultural Societies, with name and address of the Secretary of each.
19. Full information about Express and Postage rates on plants, shrubs, trees, seeds and bulbs.

No less than 270 pages of valuable reference matter in compact form, and all UP TO DATE.

PRICE \$2.00 POSTPAID.
AMERICAN FLORIST CO.,
P. O. Drawer 164. CHICAGO.

FOR SALE. Greenhouse plant 7 miles from center of Chicago in one of its finest suburbs; 3 houses 5x11, one 12x20. Hot water; established all-round retail trade; good winter stock. Long lease and ground lease, or will sell entire. A great bargain. Address BOX 1, care American Florist.

Smilax Plants Cheap.
Out of 2 and 3-inch pots, also transplanted plants out of boxes. Never had as fine and large stock before. Please state number you desire and I will give you the lowest prices. Safe delivery and best satisfaction guaranteed with every shipment. Sample order 10 cts. Terms strictly cash.
Address FRED SCHNEIDER, Wholesale Florist, Wyoming Co., ATTICA, N. Y.

THE AMERICAN FLORIST

Subscription \$1.00 a Year. To Europe, \$2.00.

Advertisements, 10 Cents a Line, Agate; Inch, \$1.40; Column, \$14.00. Cash with Order.

No Special Position Guaranteed.

Discounts, 6 times, 5 per cent; 12 times, 10 per cent; 26 times, 20 per cent; 52 times, 30 per cent. No reduction made for large space.

The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to those lines ONLY. Please to remember it.

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

Advertisements must reach us by Monday to secure insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

Coming Exhibitions.

- ATLANTIC CITY, N. J.—Trade exhibition Society of American Florists. G. C. Watson, Sup't of exhibition, 1025 Arch St., Philadelphia, Pa.
LENOX, MASS., Sept. 4-6. Annual exhibition Lenox Hort. Society. A. H. Wingett, Sec'y.
BOSTON, Sept. 5-6. Annual exhibition of plants and flowers Mass. Hort. Society.
CHICAGO, Nov. 3-11. Chrysanthemum show Hort. Society of Chicago. W. C. Egan, Sec'y, 620 Dearborn Ave.
NEWPORT, R. I., Nov. 6-8. Chrysanthemum show Newport Hort. Society. Alex MacLellan, Sec'y, Ruggles Ave.
BOSTON, Nov. 6-9. Chrysanthemum show Mass. Hort. Society. Robt. Manning, Sec'y, Horticultural Hall.
PITTSFIELD, MASS., Nov. 6-9. Chrysanthemum show Berkshire County Gardeners' and Florists' Club. W. M. Edwards, Sec'y, 103 Howard St., Pittsfield.
ST. LOUIS, Mo., Nov. 6-9. Chrysanthemum show St. Louis Florists' Club. E. Schray, Sec'y, 4101 Pennsylvania Ave.
INDIANAPOLIS, IND., Nov. 6-10. Chrysanthemum show Society of Indiana Florists. W. G. Bertermann, Sec'y, 37 Massachusetts Ave.
PHILADELPHIA, PA., Nov. 6-10. Chrysanthemum show Pennsylvania Hort. Society. D. D. L. Farson, Sec'y, Horticultural Hall, Broad St.
LOUISVILLE, KY., Nov. 6-10. Chrysanthemum show Louisville Florists. H. Nanz, Sec'y, 582 Fourth Ave.
DENVER, COLO., Nov. 7-10. Chrysanthemum show Denver Florists' Club. Adam Kohankie, Sec'y, L.B. 375, So. Denver, Colo.
PROVIDENCE, R. I., Nov. 8-10. Chrysanthemum show Rhode Island Hort. Society. C. W. Smith, Sec'y, 61 Westminster St.
MONTREAL, Nov. 12-14. Chrysanthemum show Montreal Gardeners' and Florists' Club. Fred Bennett, Sec'y, 62 Aylmer St.
BALTIMORE, Nov. 12-17. Chrysanthemum show Gardeners' Club of Baltimore. Wm. McRoberts, Jr., Sec'y, 304 W. Madison St.
WORCESTER, MASS., Nov. 13-15. Chrysanthemum show Worcester County Hort. Society. Edw. W. Lincoln, Sec'y.
TORONTO, ONT., Nov. —. Chrysanthemum show Toronto Gardeners' and Florists' Ass'n. A. H. Ewing, Sec'y, 85 Carlton St.
SPRINGFIELD, MASS., Nov. —. Chrysanthemum show Hampden County Hort. Society. W. F. Gale, Sec'y, 23 John St.
MILWAUKEE, Wis., Nov. —. Chrysanthemum show Milwaukee Florists' Club. A. Klokner, Sec'y, 219 Grand Ave.
HAMILTON, ONT., Nov. —. Chrysanthemum show Hamilton Agric. Society. Walter H. Bruce, Sec'y.

[Secretaries will confer a favor by supplying dates as soon as decided upon. We shall be glad to know of any further shows decided upon and not included in our list, even if exact date is not yet determined.]

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NOTICE

— OF —

Stockholders' Meeting.

CHICAGO, August 4, 1894.

Stockholders of the American Florist Company:

You are hereby notified that the annual meeting of the Stockholders of the American Florist Company will be held in Parlor 247, Hotel Dennis, Atlantic City, N. J., Wednesday, August 22, 1894, at 8 o'clock p. m., for the purpose of electing directors and officers for the ensuing term, and for the transaction of such other business as may come before the meeting.

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Smilax		6.00@8.00	
Asparagus		25.00@35.00	
Adiantum		75@1.00	
		BOSTON, Aug. 4.	
Roses, Niphotos, Gontler		1.00@3.00	
" Perle, Sunset		1.00@3.00	
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		PHILADELPHIA, Aug. 4.	
Roses, small		2.00	
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Roses, La France, Meteor		3.00@4.00	
" Kaiserli		3.00@4.00	
" General assortment, per 1000		\$5@10	
Carnations, long		.25@.60	
" fancies		1.50@2.00	
Harrisli		5.00	
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Roses, Perles, Niphotos, Wootton		2.00@3.00	
" Bride, Mermet, Bridesmaids		2.00@3.00	
" Meteors		2.00@3.00	
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Sweet peas		.15@.25	
Carnations, long		.75	
" short		.50	
Adiantum		1.25	
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Ferns, common, per 1000		\$1.25	
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E. S. WEATHERLY, VICE-PRESIDENT of the Sioux City Nursery and Seed Co., left August 2 for a two months' trip to Europe.

G. HOWARD SHRIVER HAS SOLD his interest and retired from the firm of Z. De Forest Ely & Co. Mr. Z. De Forest Ely will conduct the business on his own account under the name of Z. De Forest Ely & Co.

IN THE *Botanical Gazette* for June Mr. Ernest Walker of New Albany, Ind., has a paper on *Richardia africana* or "calla lily," in which he describes a monstrous inflorescence of an unusual character, explains the morphological structure of the inflorescence, and the manner in which the anthers discharge their pollen through the two chinks at the top of the anther.

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MICHEL PLANT AND BULB CO.,
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Tuberous Begonias

(GRIFFIN'S STRAIN.)
Plants in bloom, all sizes, at lowest prices.
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Plants from last fall; these have a foundation and will begin to run strong at once. \$2.50 per 100; \$20.00 per 1000.

CLEMATIS for Fall Delivery.

Special prices at wholesale, on application. Splendid stock and assortment.

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Worcester, Mass.

On Thursday, July 26, the Horticultural Society held its weekly exhibition, and although there were many meritorious exhibits most of the interest centered on the sweet peas. The day preceding the show we were visited by a severe storm, and while the rain was very welcome we could have dispensed with the wind and hail, which spoilt a number of exhibits intended for this show. A great improvement was noticeable in the display of sweet peas, both as to the number of entries and the quality of the flowers; all the stands showed the results of careful culture and selection. The first premium was awarded to F. A. Blake, second to H. A. Jones. F. J. Kinney had a splendid stand but unfortunately did not conform to the schedule and was barred out.

There was also a good display of cut flowers. F. A. Blake captured another first, H. A. Jones a second. The display of Phlox Drummondii was very fair considering the fun the rain had with it. Mrs. Milton Rand secured first; F. A. Blake, second. In the bouquet class there was a goodly number of entries, and although there was lacking the usual good taste displayed in the make up of the bouquets, they were above the average; in the amateur class F. A. Blake first; H. A. Jones, second; florists, W. J. Wood first; Mrs. Thos. Ward, second. The display of hollyhocks was large, but not at all noteworthy; Mrs. F. H. Merrifield, first; J. A. Abbott, second.

For August 2 there was a short schedule, but notwithstanding a good exhibition that was well attended, the twenty vases of cut blooms, distinct varieties, was the chief attraction scheduled and brought out some splendid displays. F. A. Blake, first; A. A. Hixon, second. The amateurs had a good display of baskets made up in good taste; F. A. Blake, first; and Mrs. C. E. Brooks, second; florists, Mrs. Thos. Ward, first; W. J. Wood, second. Several good stands of native flowers were shown that were both interesting and instructive. J. A. Abbott, first; Florence Watts, second. A. A. Hixon had a splendid display of sweet peas, filling one hundred vases, and comprising forty-five standard varieties, and F. A. Blake showed a large number of seedling perunias that were very fine.

We have had considerable rain during the last two weeks, and outside stuff shows a marked improvement, carnations especially have picked up wonderfully and most of our anxiety on account of the drought has ended. Trade has been very fair, the bulk of it being funeral work. SEEDLING.

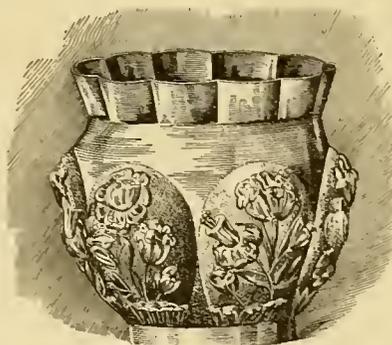
The Water Garden.

Special and Hardy Water Lilies of all colors. VICTORIA REGIA and V. RANDI, EURYALE FEROX. Nelumbiums in variety, Hardy Ornamental plants, sub-aquatic plants, etc., etc. Nymphaea Laydekeri rosea (awarded a Medal at World's Fair); most charming of all the HARDY Lilies; \$2 50 each. Other Columbian Novelties see catalogue. WM. TRICKER & CO., Clifton, N. J.

CHRYSANTHEMUMS

1000 IVORY, \$3.00 per 100. Also several thousand in variety, late propagated, just the thing for 4 and 5-inch pot plants. List of varieties and prices on application. NATHAN SMITH & SON, Adrian, Mich.

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Silver Cup awarded us for Meteor Roses, exhibited at Madison Square Garden, 1892, for best 25 Red Roses of any variety.

Roses for Winter Flowering.

We still have fine stocks of the leading varieties, AMERICAN BEAUTY, KAISERIN AUGUSTA VICTORIA AND BRIDESMAID, Strong plants, out of 3 1/2-inch pots, ready for immediate planting, \$12 00 per 100. METEOR, BRIDE, MERMET, MME. CUSIN, NIPHETOS, WOOTTON and PERLE, Strong plants, out of 3 1/2-inch pots, ready for immediate planting, \$9 00 per 100. F. R. PIERSON COMPANY, Tarrytown-on-Hudson, N. Y.

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COLEUS, 10 kinds by mail.....60c per 100
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ALTERNANTHERA P. Major by mail.....50c per 100

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Chrysanthemums, young, vigorous stock, stems, in 50 PRIZE WINNING SORTS, \$4.00 per 100; \$30.00 per 1000.

We still have a few thousand 2 1/2-inch plants, strong, of WHITE LA FRANCE and AMERICAN PERFECTION, at \$4.00 per 100; \$30.00 per 1000.

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For particulars, see next week. **R. W. CARMAN, GEN'L AGT.,** 221 Amity Street FLUSHING, Queens Co., N. Y. Mention American Florist.

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I have a few thousand Roses to close out cheap, for cash only. Stock clean and healthy. Better order quick they will not last long at these prices:

MERMETS, 2 1/4-inch.....	2 cts
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WHITE LA FRANCE, 2 1/4-inch.....	3 cts
PERLES, 2 1/4-inch, strong.....	3 1/2 cts
CHRISTINE DE NOUE, 2 1/4-inch.....	3 cts
NIPHETOS, 2 1/4-inch.....	2 1/2 cts
METEORS, 2 1/4-inch.....	3 cts
AM. BEAUTY, 2 1/4-inch.....	5 cts
MME. TESTOUT, 2 1/4-inch.....	5 cts
K. A. VICTORIA, 2 1/4-inch.....	4 cts

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Surplus stock, clean and healthy.

	Per 100
1500 BRIDES, 4-inch.....	\$8 00
1000 BRIDES, 2 1/2-inch.....	5 00
250 MERMETS, 2 1/2-inch.....	5 00
500 BRIDESMAIDS, 3-inch.....	8 00
200 WATTEVILLES, 4-inch.....	8 00

JOSEPH HEACOCK,
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I HAVE A FEW

Thousand ROSES for winter blooming of the following varieties:

MERMET,	THE BRIDE,
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BON SILENE,	NIPHETOS,
WATTEVILLE,	METEOR,
	and WABAN.

The above are from 3 1/2-inch pots, good, clean, healthy stock, which I offer at \$6.00 per 100; \$45.00 per 1000.

I also have a few thousand FERNS, as Adiantum cuneatum and Plens serrulata, from 2 1/2-inch pots, at \$3.00 per 100.

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Three thousand, in 3 1/2-inch pots; extra fine stock, at \$10.00 per 100.

For sale, 1000 good, strong plants, including Mermets, Cusin, Wattevilles and Niphetos.

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ROSES.

1000 MERMETS, 600 NIPHETOS,
1000 BRIDES, 150 TESTOUTS.

All from 2 1/2-inch standard pots. These are in the very best of condition and as large as a great deal of the stock shipped from 3-inch pots.

Per doz. 75c.; per 100 \$5.00; per 1000 \$45.00.

☞ Samples free to intending purchasers.

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2 1/2-inch pots. Per 100 Per 1000

BRIDE.....	\$2.50	\$22.50
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And all other standard varieties, 2 1/2, 3 1/2 and 4 1/2-inch pots. Write for prices on what you need.

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No trouble to show stock or quote prices. Catalogues and Price Lists free.

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Perle, Niphetos, Mermet, Bride, Victoria, Meteor, La France, Albany, Gontier, White La France, Soupert and Bridesmaid, 2 1-2 inch pots, \$5.00; 3-inch pots, \$6.00 per hundred.

AMERICAN BEAUTY, 2 1-2 inch, \$6.00; 3-inch, \$8.00 per hundred.

THIS STOCK IS WELL GROWN AND IN FINE CONDITION.

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Fully equal to those sent out the last two years, and perfectly healthy in every respect. Only selected growth from flowering shoots used in propagating.

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METEOR,	ULRICH BRUNNER,	BRIDESMAID,
	3-inch pots, \$9.00 per 100.	4-inch pots, \$12.00 per 100.
PERLES,	SUNSETS,	BON SILENE,
SAFRANO,	MME. HOSTE,	MERMETS,
	3-inch pots, \$7.00 per 100.	4 inch pots, \$10.00 per 100.

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Roses, H. P. Roses, Rhododendrons, Azalea mollis, Clematis, Hydrangeas (bushy and tree form), Aucuba, Buxus, Acer in sorts, Viburnum plicatum, Dutchman's Pipe, Magnolias, etc.

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AMERICAN BEAUTY, TESTOUT, K. A. VICTORIA, BRIDESMAID, BRIDE, MERMET, METEOR, PERLE, SUNSET, CUSIN, LA FRANCE, 3 and 4-inch pots, prime stock, shipped at special florists' rates. Packing light.
Write for prices, including delivery to your Express office. **A. S. MacBEAN, Lakewood, N. J.**

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Warranted first quality. Surplus stock from 4-inch pots. Per 100 \$ 6 00

PERLES.....	5 00
MERMETS.....	5 00
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PAPA GONTIER.....	5 00

CASH WITH ORDER.

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Mermets, Cusins Wattevilles, Hoste, Meteor and La France, \$3.00 per 100. Strong American Beauties, \$5.00 per 100; \$40.00 per 1000. 500 at 1000 rates.

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Clean, healthy stock.

MERMETS,	BRIDES,	SUNSETS,
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MME. WATTEVILLE,	BON SILENE,	METEOR,
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Strong plants, from 3-inch pots, \$8 per 100; \$75 per 1000.

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Strong, healthy plants, from 2, 2 1/4 and 3-inch pots. price, \$3.00, \$4.00 and \$6.00 per 100.

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Strong AM. BEAUTY, from 2-inch pots, \$4.00 per 100.

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Wm. K. Harris

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Plants, like people, are often stunted and sickly in the mansion, while the hovel contains health and vigor. In my plant palaces, health universally abounds, as we allow no excess of high stimulants among our occupants. They must all live upon plain fare, and take plenty of pure, fresh air.

Take train at Broad Street Station Penn. R. R. for 49th Street Station. It is only ten minutes' ride to 49th Street Station, and ten minutes' walk to my place from 49th Street Station.

Trains leave Broad Street Station as follows: 6:49—8:16—10:46 a. m. 12:13—1:28—2:18—3:15—3:47—4:33—5:16 p. m.

On Friday, August 24th and Saturday, August 25th, I will have a conveyance at 49th Street Station at the arrival of each train to convey my guests over. After inspection of my place, I will drive all who wish to see my friend Robert Craig. It is about a mile from here.

WM. K. HARRIS.

55th & Springfield Ave., Philadelphia, Pa.

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FOR OUR CONVENTION NUMBER...

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P. O. Drawer 164. CHICAGO.

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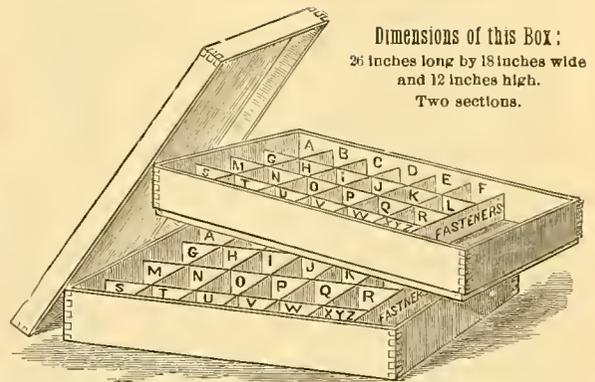
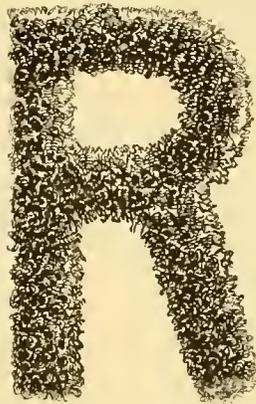
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These Letters are handled by all the Wholesalers in Boston.

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Cincinnati.

Echoes of the outing have about died away and the boys are all busy looking after water. The dry hot weather of the past few weeks has used up all the water in the ponds, and many florists are hauling from the creeks. Funeral work has been a little more plentiful during the past week, but business in general is quiet.

S. G. Cobb of Covington, Ky., has sold his greenhouses to Wm. Ruddel and Rob't Johnston. I understand these young men are not professionals in the business and have bought on speculation.

G. Brunner's Sons of Price Hill are cutting some nice smilax. This firm had quite an experience with a herd of fifty cows one night last week; nothing would satisfy their appetites but the young carnations; damage about twenty dollars, besides spoiling a good night's sleep.

W. J. Gray is cutting some very good Brides, Mermets and Perles. Rumor says that this gentleman will open a commission house in the city to dispose of his own stock.

Our party for Atlantic City is steadily gaining ground; have had some trouble with the railroads in getting rates positively, but think we will have same settled by Saturday, Aug. 4.

W. C. Nolan left August 2 on the Niagara excursion for Rochester, N. Y., on a few days' vacation. E. S. Johnston is camping out this week and trying to catch a few innocent little fish. George Magrie lost himself at the outing and did not return home for several days, but guess he had a date in Middleton.

A petition was filed July 31 praying for the dissolution of the Huntsman Floral Co. of 37 and 39 West 4th street. The petitioners are Edward A. Tucker, who owns ninety shares of stock, and James Dillaby, who owns ten shares. The authorized capital is \$10,000, the shares being \$50 each. Only \$7,900 of the stock has been issued. The incorporation is insolvent and it is deemed to be for the best interests of creditors and stockholders that it should be wound up. The assets are about \$900 and the liabilities are \$5,519.67. The other stockholders are: Henrietta C. Huntsman, twenty shares; Frank Huntsman, six shares; Oakwood Rose Garden Company, ten shares; Michael Dumer, sixteen shares; and O. F. Blackburn, D. D. Bramble and Herman Muller, two shares each. Wm. G. Roberts is counsel.

Our visitors in the city this week were H. M. Altick of Dayton, O., and Fred Weltz of Leo. Weltz's sons, Wilmington, O.

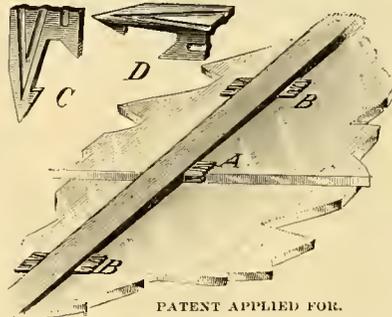
Supt. of Parks Warder has at last received sanction of the board of aldermen in his scheme to purchase a conservatory for the parks. Mr. Warder has done quite a good deal of bedding this season, and has been untiring in his efforts to beautify our parks, and so far has succeeded admirably. G.

New Catalogue (No. 4) containing over 1,000 Ornamental Cuts for Florist's use, such as envelopes, letter heads, bill-heads, cards, advs., floral designs, etc., at from 30c. and upwards. Price of Catalogue 25 cts. (deducted from \$1 order).

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FRANCIS' CORRUGATED HOLD FAST GLAZING POINTS.



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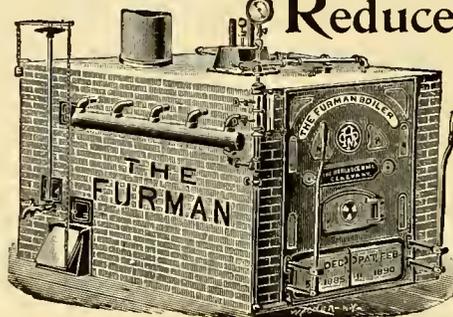
SURPASS ALL OTHERS YET INTRODUCED IN THE MARKET FOR GLAZING GREENHOUSES.

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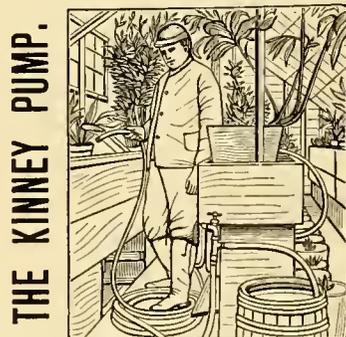
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The same machinery, clay and workmen. The same smooth, porous, evenly burnt and well packed pots. Orders filled promptly. Write for prices.



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NUMBER....

.... TO BE PUBLISHED

AUGUST 16.

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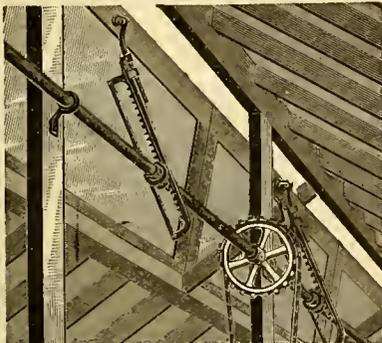
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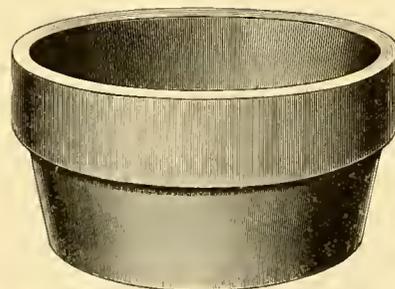
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DETROIT, July 19, '94.

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BUFFALO, N. Y., July 17, '94.

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Respectfully yours,

WM. SCOTT.

Price List of Standard Flower Pots sent on application.

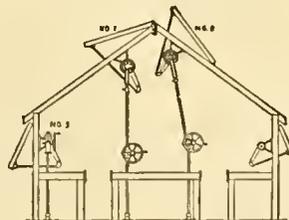
DETROIT FLOWER POT MANUFACTORY, Howard, Wabash & Thirteenth Sts., Detroit, Mich.

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Opens Sash uniform on 100 foot houses. A new device.

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In horticultural magazines there have appeared from time to time inquiries about pot washing machines. It seems that no machine capable of effectively performing such work has yet come into existence. Washing large quantities of pots is out of the question unless it can be done rapidly and at a very small expense. Moreover the foreign matter on pots is not merely superficial, but more or less fills the pores. To attempt to remove it by mechanical means is soon found to gird away any kind of instrument that may be used, whether in the form of cloth, brush or steel scraper. It seems therefore unlikely that any effective pot washing machine will ever be devised.

There are, however, always more than one way of reaching a given point. A cheap and thoroughly satisfactory method which the writer believes he is original in suggesting is to bury the pots in loose moist earth, humus, or rotted tanbark during a few weeks or through the summer. During this time the organic matter on the sides and in the pores of the pots is decomposed, and at the end of the time they may be taken out and will be found to be almost like new pots.

The pots should be piled up loosely and the light soil or mould worked well around them. The whole should then be watered thoroughly and from time to time as required to keep the humus damp, but not wet. A very slight degree of moisture promotes the decomposing process and makes it more thorough than too great a degree. ERNEST WALKER.
New Albany, Ind.

New Orleans.

At the recent supper of the New Orleans Horticultural Society, reported on page 1242 of our issue for July 26, the supper room was tastefully decorated with plants by Mr. H. Papworth, and a handsome plateau of roses was contributed by Mr. J. H. Menard, while Abele Bros. sent two fine bunches of roses. Great credit is due the committee of arrangements, consisting of Messrs. Chas. Panter, J. H. Menard and C. W. Eichling.

The "Souvenir toothpicks" were the gift of an honorary member of the society. The "picks" were plant labels, upon which was printed "Souvenir toothpick, N. O. H. S., 1894." They caused much amusement.

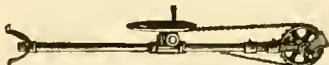
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2 1/2 "	4.00	9 "	75.00
3 "	5.00	10 "	100.00
3 1/4 "	7.25	11 "	150.00
4 "	9.00	12 "	200.00
5 "	13.80	14 "	400.00
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CHATHAM, N. Y., May 26, 1894.
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Yours truly,
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Announcement to Florists.

We desire to announce the dissolution of the firm of Sipple Doppfel & Co., and to introduce to the trade its successor, The Syracuse Pottery Co., which will be under the management of William Doppfel and Conrad Breitschwerth. The business will be conducted as heretofore, except on a larger scale to meet the growing demand for our goods. We have accordingly enlarged our plant and capacity, and with unsurpassed facilities are now prepared to fill the largest order on short notice. Our latest improved machines are turning out the best and most serviceable flower pots in the market, and assuring you of our intention to lead in further improvements we solicit a continuance of your patronage in the belief that we can supply just what is needed at a price and in a manner satisfactory to all.
Send for price list and samples and we know you will give us an order.

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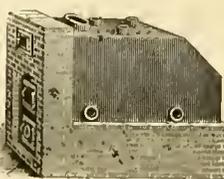
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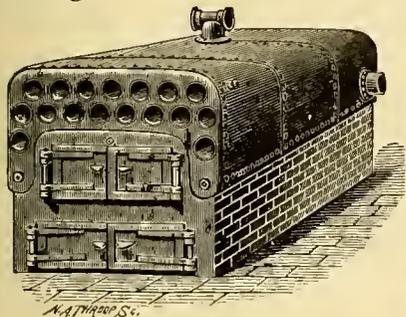
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DEVINE'S BOILER WORKS.

THE FLAT TOP TYPE

Wrought Iron Hot Water Boilers.



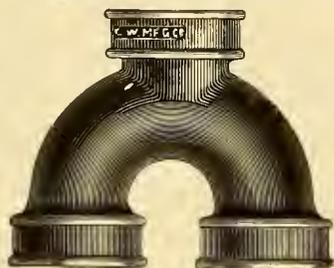
Capacity from 350 to 10,000 feet of four-inch pipe.
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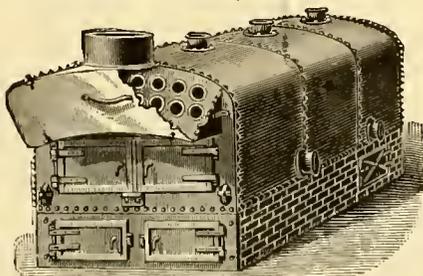
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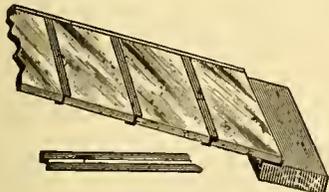
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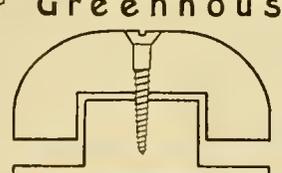
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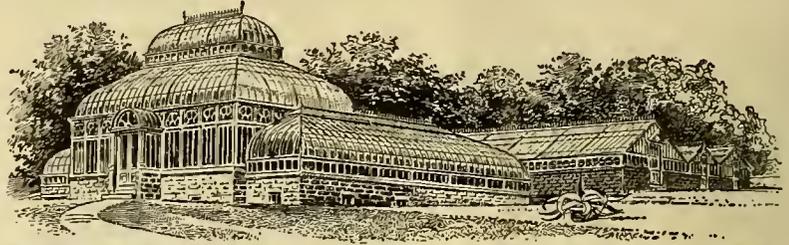
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AND LARGEST MANUFACTURERS OF
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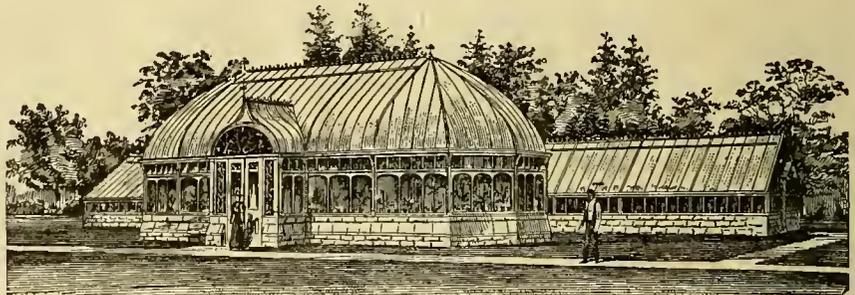
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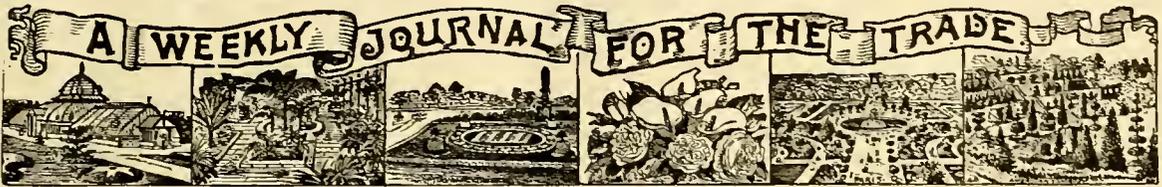
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THE AMERICAN FLORIST



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Vol. X. CHICAGO AND NEW YORK, AUGUST 16, 1894. No. 324

THE AMERICAN FLORIST

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Entered as Second-Class Mail Matter.

PUBLISHED EVERY THURSDAY BY

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322 Dearborn Street, Chicago.

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Address all communications to

AMERICAN FLORIST COMPANY.

P. O. Drawer 164, CHICAGO.

Eastern Office: 67 Bromfield St., Boston.

This paper is a member of the Associated Trade Press and the Chicago Trade Press Association.

The Tenth Annual Meeting

OF THE

Society of American Florists

WILL BE HELD AT

ATLANTIC CITY, N. J.,

AUGUST 21, 22, 23 & 24, 1894.

Members may remit the annual dues (\$3.00) to the secretary prior to the meeting, thus avoiding the crowd and relieving the officers on the opening day. Badge for 1894 will be sent by mail to those who remit in advance of the meeting.

Intending members can obtain any information wanted by addressing the secretary.

OFFICERS:

J. T. ANTHONY, Chicago, president; ROBERT KIFT, Philadelphia, vice-president; WM. J. STEWART, 67 Bromfield St., Boston, Mass., secretary.

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The Progress of a Decade.

The convention of the Society of American Florists at Atlantic City will possess a special interest for all who have been loyal supporters of the organization from its inception as well as for those who have more recently become identified with it, from the fact that this meeting will be the tenth anniversary of the founding of the society.

Floriculture and her allied industries have made great and rapid advances during the ten years just passed, and their progress and prosperity may be attributed in no small degree to the well directed effort and beneficent influence exercised by this grand organization. In the following notes we have endeavored to give our readers a brief retrospective glance at the society's history and achievements and a review of the practical advance made in a few of the more important lines of commercial floriculture during the decade over which the society's existence has extended.

It was on the occasion of the annual meeting at Chicago of the "National Association of Nurserymen, Seedsmen, Florists and Kindred Interests," that the first steps were taken toward the organization of the Society of American Florists. The date was June 19, 1884. A number of gentlemen, some twenty or more, who were attending the convention, in accordance with a verbal understanding, met in one of the parlors of the Sherman House. The desirability of an independent national organization of those engaged in floriculture was talked over and ways and means discussed, the result of the meeting being the selection of John Thorpe as president and E. G. Hill as secretary, and the appointment of a committee to issue an address to the florists of America. A strong point made in the address was the matter of protection from losses by hail storms. Without this incentive it is extremely doubtful if the Society of American Florists had been a reality for several years at least.

The members present and most of those joining the first year in response to the call issued at this meeting paid as membership fee the sum of \$5. This sufficed to put the young organization on its feet and the funds were wisely expended in advertising the society, its aims and possibilities among the florists of the land. This was not so easily accomplished in those days, for the trade papers now found so valuable a means of communication were then unheard of and it required continued and persistent work on the part of the founders to accomplish what they did. But from the very first moment of the opening session at the Cincinnati convention on August 12, 1885, there could be no longer any doubt as to the future of the young organization. The enthusiasm of that meeting has never been excelled in any that have succeeded.

The AMERICAN FLORIST had its birth at the Cincinnati meeting, and all through the nine years that have passed it has been an earnest co worker with the national society in everything for the material and social elevation of the craft and may conscientiously claim a share with it in the great advancement which has been made.

The great contests over the respective merits of steam and hot water heating, the pertinacity of the hail insurance advocates in the face of indifference and direct opposition, the sharp personal encounters of those early meetings are fresh in the memory of many. It was a new experience for the florists to get together and talk it out, and they took full advantage of it.

In the years that have passed since then the Society of American Florists has justified all that was promised for it. The uniformity in sizes and shape of flower pots, the special postal rates on seeds and plants, reduced express charges on plant shipments, reform in plant nomenclature, the Florists' Hail Association, the Florists' Protective Association, are all the direct result of well directed effort on the part of the Society of American Florists, while the numerous Florists' Clubs and other similar organizations owe their existence to the good example set and encouragement extended by the parent society.

Many of those who took active part in the early work of the society have been taken away by death, and the list of those whose names have thus been removed from the roll comprises many whose reputation is world wide. It is to the fact that the very best men associated with floriculture have affiliated themselves with the Society of American Florists that its great influence and continued prosperity are due. The score of earnest workers have drawn to their support the very best brains in the profession until now, a thousand strong, the power for good centered in this organization is incalculable.

A glance at the program prepared for the meeting at Atlantic City, the subjects to be discussed and the men eminent in their various lines who are expected to participate, give promise of a meeting this decennial year which will be in every way worthy of the occasion. The number of new names presented for membership this year we are informed is unprecedented and every inch of available space in the exhibition hall was sold nearly a month ahead of the meeting. The Society of American Florists has every reason to feel proud of its position at the end of its first decade.

INDUSTRIAL PROGRESS.

Perhaps nothing can demonstrate more clearly the variety and extent of the many industries which have come to be our auxiliaries, and the skill and ingenuity

THE HEADQUARTERS of the AMERICAN FLORIST at the Convention will be at Hotel Dennis.

NOTE change in arrangements for transportation from Chicago to Atlantic City on page 56.

which have been expended on devices of value to floriculture, than a list and description of the varied exhibits which are to be placed in order for our inspection at Atlantic City. By the kindness of the superintendent of the trade exhibition, Mr. Geo. C. Watson, we are enabled to present herewith a diagram of the hall with the allocation and space to be occupied by the exhibitors as described below.

At the right on entering the first exhibit will be that of Benj. Chase, Jr., Derry, N. H., (No. 49) who will show a full assortment of pot and tree labels.

On the right wall table next comes H. Bayersdorfer & Co., of Philadelphia, (No. 45) manufacturers and importers of Florists' Supplies, with a large display of new baskets, metal and porcelain designs and general supplies, many of them the result of Mr. Bayersdorfer's recent trip to Europe, and illustrating the latest ideas of the artistic taste of the old world. Mr. Bayersdorfer staged a fine exhibit at the Cincinnati convention nine years ago and has never missed an exhibition since.

Next in order (No. 40) comes Frank L. Moore, Chatham, N. J., who will show shipping trays for cut flowers introduced by him in 1887 and now extensively used by growers for the market. Also will be shown for the first time the Workeasy Strap Buckle, a most useful and ingenious contrivance which must be seen to be appreciated.

Next the Snow Rustic Manufacturing Co., (No. 30) who will show rustic chairs, window boxes, plant stands, etc., including several novelties in the way of rustic work.

No. 19 is Thomas Woodason, Philadelphia, manufacturer of bellows for spraying liquid and dry insecticides. This is the first convention to which Mr. Woodason has sent his wares, but they are well and favorably known to the trade through the medium of the seed trade and supply men.

Z. De Forest Ely & Co., of Philadelphia, (No. 13) come next with a line of florists' bulbs and various supplies including some novelties recently patented. Mr. Ely's exhibits are always beautiful and instructive.

S. B. Arment (No. 51) will show grass receptacles for lawn mowers.

On the stage, right hand side, (No. 3) Major Bonnaffon, of Philadelphia, will show his detachable steel fence for farm, park, lawn or garden, easily put up or taken down and an excellent cheap trellis for sweet peas and other vines. Edwin Lonsdale, of Chestnut Hill, will have a display of plants "inside the fence."

The center of the stage will be occupied by Hitchens & Co., of New York, (No. 2) who will erect thereon a modern greenhouse for both private and commercial purposes, showing various styles of benches, ventilating, hot water boilers, etc., in connection with same.

On the stage, left side, (No. 1) will be shown the device of the Chadborn-Kennedy Mfg. Co., known as the Chadborn automatic ventilator, which is intended to regulate the temperature in greenhouses. Its motive power is water, this being under control of a thermostat which is adjusted to any degree of heat desired in the houses.

Adjoining this will be found Thos. Weathered's Sons' exhibit of horticultural building, heating apparatus, etc., and the Quaker City Machine Co.'s display of their Challenge ventilating apparatus.

In front of the stage, right corner, (No. 8) will be seen the balanced ventilating apparatus of E. A. Ormsby, a most ingenious contrivance.

Next to Mr. Ormsby comes E. S. Schmid, of Washington, (No. 7) who will show aquatics and gold fish.

In the center in front of the stage (No. 6) Wm. Tricker & Co., of Clifton, N. J., will make a beautiful display of aquatic plants in a large tank in which will be included many new and choice nymphæas, of the hardy and tender, day and night blooming species, lotus flowers, etc.

To the left of Mr. Tricker (No. 5) will be located the Hose Connection Co., of Kingston, R. I., who will exhibit for the first time the Kinney pump, a simple and effective device for applying liquid manure

A. H. Hews & Co., of North Cambridge, Mass., (No. 14) come next with a full assortment of standard flower pots, seed and fern pans, also a new line of jardinières especially adapted to standard pots.

Next come Edwards & Docker (No. 20) with folding flower boxes. The Cushman Gladiolus Co. (No. 33) who will show cut blooms of seedling gladioluses, and John N. May (No. 26) who will place on exhibition the new American rose Mrs. Whitney.

Dan'l B. Long, of Buffalo, whose exhibit is next in order (No. 34) will require no introduction and a convention would not be complete without him. The system and order prevailing in the exhibitions of the society now are in no small degree the result of his abilities in that line exercised when he was a member of the executive committee. He will show his specialty, photographs of designs in cut flower work, with many additions and improvements since last year.

A. Herrmann, manufacturer of metal designs at 412 East 34th street, New York, comes next (No. 41) with metal designs in variety and cycas leaves.

A. Q. Wolf & Bro., of Dayton, O., (No. 48) at the left of the entrance to hall will exhibit the Champion automatic ventilators and Champion soil pulverizer and sifter, both valuable devices.

The entire center table will be devoted to exhibits of plants. The first in order (No. 47) is Robt. Craig, of Philadelphia. Here will be a fine collection of palms and foliage plants, new cannas, outdoor grown crotons, etc. Mr. Craig was a pioneer in the use of crotons for bedding purposes and was one of the first to demonstrate their value for this purpose. His collection is very large and will be one of rare interest in this direction. A batch of the new *Dahlia imbricata alba* will also be shown by Mr. Craig.

Passing down the right of center table, next to the Craig exhibit, will be the collection of palms and decorative plants from Chas. D. Ball, of Philadelphia, (No. 38). Mr. Ball is one of the best known of the famous Philadelphia palm growers and his exhibit is sure to be an attractive one.

Next (No. 33) comes Ellwanger & Barry, the prince of nursery firms, of Rochester, N. Y., who will show roses, perennial phloxes and other seasonable blooms.

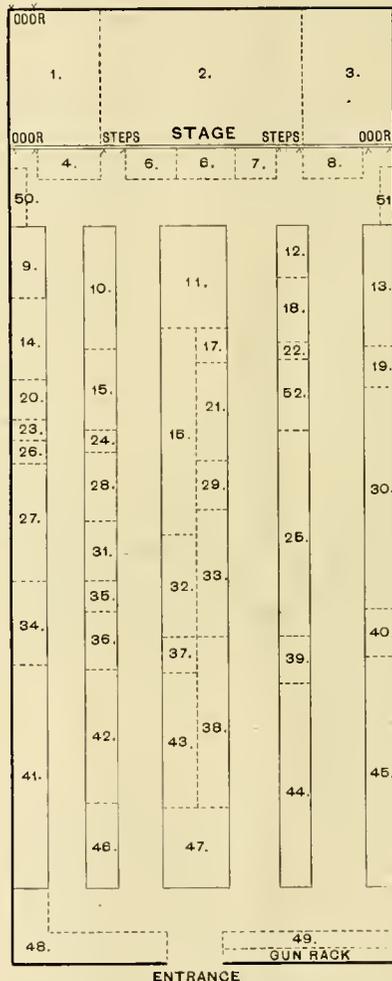
Adjoining Ellwanger & Barry will be Storrs & Harrison, of Painesville, O., (No. 29) who may be expected to show a good assortment of plants in their special line.

W. A. Manda, of South Orange, N. J., comes next (No. 21) with a display of novelties in foliage and flowering plants, orchids, bulbs, etc. Although Mr. Manda now makes his first bow as an exhibitor at the conventions he is no stranger to the trade personally and he is sure to receive a hearty welcome.

Next (No. 17) will come specimen plants of Mr. Lonsdale's favorite *Swainsona galegifolia alba*, a coming plant for florists' use for cutting, profitable to handle and easy to grow.

The end of center table facing the stage (No. 11) has been secured by the United States Nurseries, Short Hills, N. J., who will fill it with a display of palms and ornamental foliage plants in variety, as well as flowering plants, bromeliads, orchids, seeds and bulbs.

Passing up the left hand side of center table the next display will be that of Henry A. Dreer, Philadelphia, (No. 16) where may be found samples of the palms, ferns, araucarias and other decorative

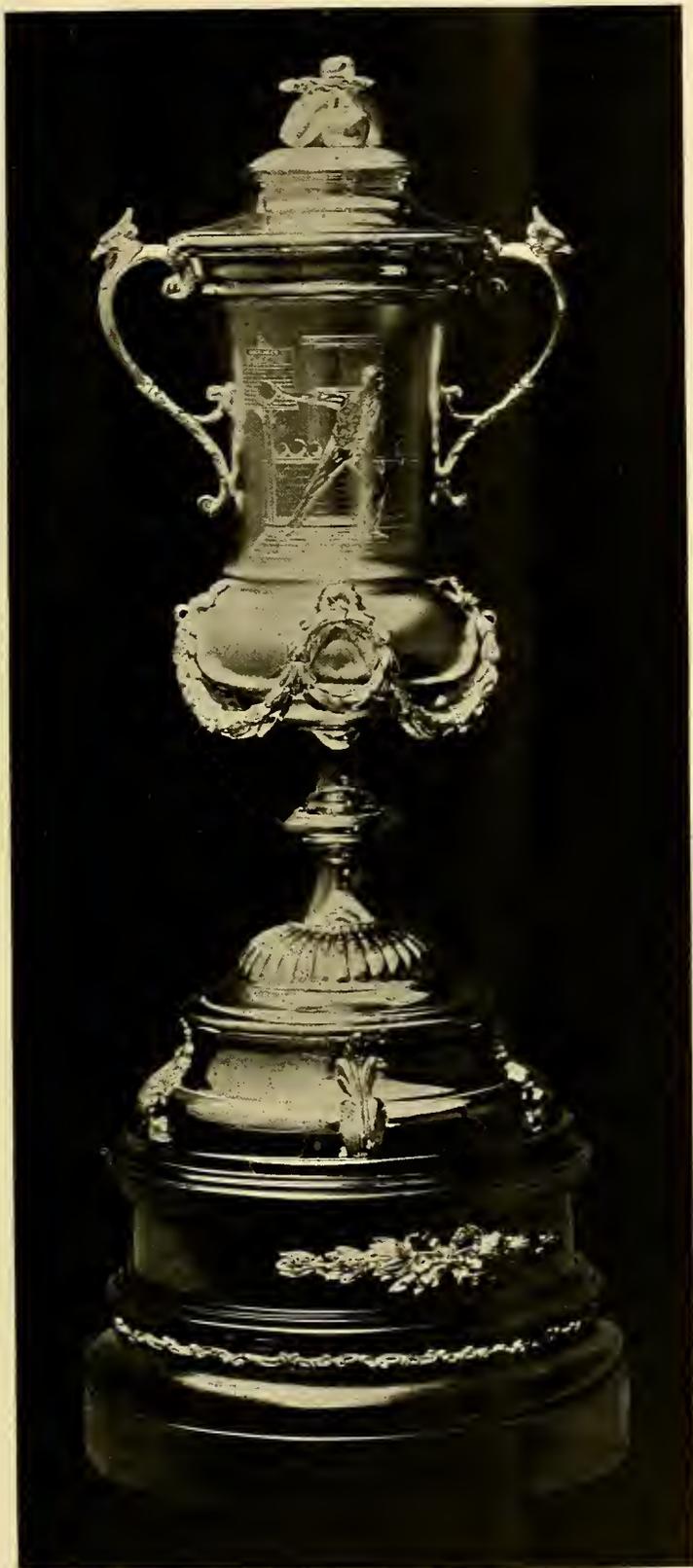


in the greenhouse or garden, also for spraying with fungicides and insecticides.

Next comes E. Hippard, of Youngstown, O., (No. 4) with the Standard ventilating apparatus. Those who did not attend the St. Louis convention have yet to see the new adjustable arm for this machine. The Standard ventilating apparatus was thought so well of last year at St. Louis as to be awarded a first-class certificate.

Starting from the stage the first exhibit on the left hand wall space (No. 50) is the Wisconsin Flower Exchange, of Milwaukee, who will show a set of their useful plant tubs, which supply a long felt want for something neat, durable and cheap.

Next is the exhibit of E. Kaufmann & Co., of Philadelphia, (No. 9) who will show a choice collection of florists' supplies. The display by this firm is always artistic and effective.



THE FIRST TEAM PRIZE IN THE BOWLING MATCH

plants for which this house is famous, cut blooms of new cannas, phloxes, etc., also French and Dutch bulbs and florists' requisites.

Adjoining H. A. Dreer will be found Siebrecht & Wadley, of New York, (No. 32) who will be on hand with useful plants for florists' use, orchids and interesting new plants.

L. B. Brague, of Hinsdale, Mass., (No. 37) comes next and will show his specialties, cut ferns, evergreens, moss and supplies of a similar nature. His place is up among the Berkshire Hills where these ferns are found in great abundance and in fine quality.

Between L. B. Brague and Robt. Craig will be found J. C. Vaughan, of Chicago

and New York, (No. 43) who will make an exhibit of splendid cannas, roses and other desirable plants for florists' trade.

At the head of the table to the right of center (No. 44) A. Blanc & Co., of Philadelphia, will display vases for florists' use and cacti in great variety, and it is safe to say that this will be found to be one of the most interesting spots in the exhibition.

Next comes the J. Horace McFarland Co., of Harrisburg, Pa., (No. 39) who will show samples of catalogue work for florists as written, illustrated and printed at the "Mount Pleasant Printery." Experts in catalogue work never fail to give unstinted praise to the technical skill of Mr. McFarland in his special line of horticultural printing, a class of work which it is difficult to get done properly in an ordinary printing office. A part of Mr. McFarland's exhibit will be an object lesson called "The evolution of a catalogue page."

J. E. Jeffords & Co., Philadelphia, (No. 25) are next in line with a beautiful display of jardinières, vases and ferneries, which are now indispensable to the stock of every florist who does a retail business. Messrs. Jeffords & Co. have promised to make the most complete exhibition of this class of goods ever shown at a convention.

J. Arnot Penman (No. 22) will occupy the space next adjoining, and will offer for inspection Nicholson's great work, *The Dictionary of Gardening*, which is the standard authority on nomenclature adopted by the Society of American Florists, also several other recently published horticultural works.

Next to Mr. Penman comes the Powell Fertilizer and Chemical Co., (No. 18) who will make an interesting exhibit of fertilizers, fungicides, insecticides and other chemical products of value to plant growers.

At the end of this table (No. 12) will be found the Pittsburg Clay Mfg. Co., of New Brighton, Pa., who will make a display of standard flower pots and terra cotta lawn vases. The exhibit will be in charge of their popular representative, Mr. W. H. Elverson.

At the upper end of table to left of center H. F. Michell (No. 46) will show bulbs, seeds and a full line of florists' necessities.

Next in order is the bulb and seed display of J. C. Vaughan, (No. 42) which has always been one of the most complete and interesting features of the society exhibitions.

The Parmenter Mfg. Co., of East Brookfield, Mass., (No. 36) are next with a full line of standard and fancy flower pots, jardinières, seed and fern pans and garden vases.

Next comes the Rose Mfg. Co.'s specialty, sulpho-tobacco soap (No. 35).

Just beyond will be The Whilldin Pottery Co.'s display of standard flower pots, seed pans, etc., (No. 31). Messrs. Whilldin date the period of their popularity with the florists to the time when they began to show their manufactures at these annual conventions and advertise them in the AMERICAN FLORIST.

Adjoining the Whilldin exhibit will be that of J. R. Wotherspoon, (No. 28) who will show the Eureka fumigator, the Wotherspoon watering pots and other specialties.

Next in order will come the Lockland Lumber Co., of Lockland, O., (No. 24) long time exhibitors and both widely and favorably known for their specialty, which is cypress wood work for greenhouse roofs, gables, gutters, plates, etc.

Just beyond will be S. A. Weller (No.

15) with jardinières in a variety of styles and sizes, and at the end of the table will be found C. H. Joosten, of New York, (No. 10) who will show the Fostite magazine bellows, hand and horse power, in practical operation, and will also have a line of forcing bulbs, azaleas, etc., and his special specialty, Fostite, the great remedy.

Number 52 is H. G. Faust & Co., whose display will consist of bulbs, seeds and an assortment of sundries.

Other exhibitors who came in late and will probably be found in the overflow exhibit in G. A. R. hall are Keller Bros., Norristown, Pa.; N. Steffens, maker of florists' wire work, New York city; Aug. F. Brabant, florists' pins, New York city; Worcester Wire Co., Worcester, Mass.

PROGRESS IN ROSES.

A well known rose grower, one of the most extensive as well as most successful in this country, on being asked to name a dozen of the best forcing teas, replied, "You can not find a dozen good teas." Considering the universal popularity of the rose, the time and industry which have been devoted to its improvement, and the countless number of varieties which have been introduced with ambitious titles and claims, this assertion, which is liable to stand uncontradicted, is significant as indicating the high standard prevailing in the American market and the heavy odds against which introducers of new varieties are forced to struggle.

The main points required in a forcing rose under the present conditions are a good constitution and its accompaniments, namely, vigorous and rapid growth, strong upright stem, good substance, rich foliage, and immunity from disease; large flowers borne on single stems, with persistent petals of clean color and no tendency to turn purplish; sufficient doubleness of flower to prevent exposing the center when full blown, but not so double as to interfere with free and rapid development of blooms in mid-winter; long and steady season of blooming.

The variety coming nearest to a combination of all these good qualities is the American Beauty, which is undoubtedly the grandest forcing rose ever introduced and has no rival in the market to-day. It has steadily maintained its price better than any other variety and the demand for plants the present season has been greater than ever before. Not every one succeeds with the Beauty. Its stubbornness has been the cause of many a heart ache, and frequently in winter it puzzles those hitherto most successful in its cultivation, rewarding their care and attention with unmarketable blooms and keen disappointment. As one prominent grower has remarked, "It's no trick to grow Beauty until you get the fire on; when the short days come, that's the test." The American Beauty can doubtless be made better by careful selection of stock. One grower who has been at work on it for some time claims a great advance in intensity of color.

American Belle, the Beauty's most promising offshoot, is a good thing with its originator, and with some others, but it must be confessed that in some localities it has not grown freely and has not as strong a constitution as Beauty. It is more useful than Beauty on account of its color, which is charming and does not deteriorate after being cut.

The Bride continues to be the foremost white rose and is rated by some growers as second to the American Beauty in de-

mand. One fault with it is the difficulty of getting any size to the buds in summer. It is noticeable also that in some places the Bride about mid-winter will get sick and die. This trouble seems to be a matter of soil, as in other localities under the same treatment it remains in full vigor until hot weather.

The same difficulty in getting size in summer as noted in the Bride is also found with the Mermet. The Mermet has certainly been interfered with to a considerable extent by the Bridesmaid, which has the merit of constant rich color even through the dark days of winter when the Mermet gets pale and badly off color. On the other hand the Mermet is charming when the clear days of spring come and is unquestionably a little larger flower. The Bridesmaid has evidently come to stay and it will be interesting to note in the immediate future whether it will, as its most enthusiastic admirers claim, supplant the Mermet completely.

Next to the American Beauty in value as a forcing rose stands the Meteor in the estimation of some of the largest growers to-day. Plants of this variety have been in great demand during the past spring and it has now taken its position as the foremost red everblooming rose. A glance at the history of the Meteor will not be out of place here. It was so little thought of by its raiser, Mr. Henry Bennett, that he presented it to Mr. Evans, the purchaser of the Bennett, with the remark "that it might be some use in America but was of no use to him." It remained in Mr. Evans' hands for about eight years, he growing it with indifferent success, and all the slow Philadelphia people concluded that it was not a safe rose to handle. Finally an enterprising New York grower bought it out, stock plants and all. Experiments with it under different conditions soon developed what its special needs under cultivation were, and it has been such a success that it is now considered indispensable by all the leading growers. It is a mistake to condemn a rose too quickly.

Mme. Hoste, although a very useful rose in its time, appears to be dropping out of favor, and the Kaiserin Augusta Victoria is likely to take its place. Hoste is valuable on account of its free blooming qualities and its elegant shape in mid-winter, but its season is short and as soon as the weather begins to get hot in spring it becomes poor. The Kaiserin on the contrary shows a decided improvement in hot weather and its season is much longer. There is some question as to its value in winter. In winter time it is not nearly as good as Bride and it suffers in comparison also on account of being easily bruised, but when its long season is taken into account it is found a profitable rose to grow. Freedom from mildew is another very strong point in its favor. It is one of the easiest roses to grow and is wonderfully productive, throwing two blooms for every one Bride.

Mme. Caroline Testout is a rose on which opinions vary as yet. The enormous demand for young plants the present season would indicate that it is in a fair way to become an established favorite. It is significant that Testout is being grown to-day by men who at first condemned it. The success with it varies greatly in different places and it is evident that the growers do not all know how to handle it yet. Its color is the purest tone of pink; it is in fact the only rose of the color in existence. It is a good grower and very free in soil that suits it.

Mme. de Watteville is not as much grown as formerly excepting by a few

New Yorkers who grow it superbly. Around Philadelphia it does not do first rate and they are inclined to drop it. But there is no color like it, its peculiar shading entitling it to the name of "the tulip rose," and it is not likely to be given up by any one who can grow it well.

Mme. Cusin is another rose which has made its greatest record in New York. One merit is its remarkably long season. There is nothing to beat it for freedom of bloom and it is second to none as a winter rose. Its small size is against it as a permanent favorite and south of New York this defect is most apparent.

Perle des Jardins still remains the best yellow. Unfortunately it gives too many poor and deformed flowers in winter and as a winter bloomer it has seen its day. Other yellows have been heralded as sure to take its place, but they have not done it. There is, however, very little demand for yellow roses as compared with a few years ago. Sunset is still a favorite with a good many. This rose varies very much in color, and by propagating only from the rich dark colored forms the strain might undoubtedly be improved greatly.

A rose purporting to be a yellow Mermet was sent out three years ago. Enterprising growers all bit at it and paid a good price for it, but it wouldn't flower and it wasn't yellow and proved an absolute failure. A yellow rose of Mermet type is a thing most desired in the rose world to-day.

Niphetos is very little grown and were it not for its adaptability to certain spots where nothing else will do well, such as low front benches and odd corners, it would be grown still less. It is an exceptionally free rose and if its flowers could be sold it would be a very profitable rose to grow, but the demand for long stiff stems has been a powerful factor against it and the uses to which its flowers can be put are few.

Papa Gontier is another of the "has beens." It is too small for the prevailing taste and its season is too short. It is no good infall and as soon as the weather gets warm in the spring it opens too quickly and is unsalable. Out of the large number of growers who planted Gontier a few years ago there can only be found now a couple or so in each of the large centers.

A rose that has come into popularity and then gone out again within the past decade is the Wm. Francis Bennett. Red roses were more popular ten years ago than at present and the Bennett was hailed as a winner. It was welcomed as a relief from the exacting Jacq growers who had things all their own way on roses of this color up to that time. The Jacq growers watched it with suspicion and looked eagerly for evidences of weakness in it. Weak points soon appeared, for it was found to be a very poor grower. It is one of the freest roses ever produced and will bloom grandly if it can only be induced to make wood, but this it seems to do only in occasional cases.

Another rose that created a furor on its first appearance was Her Majesty. Although belonging in a different class from the other varieties here referred to, yet it may not be out of place to recall the sensation it made nine years ago when it was carried out to the Cincinnati convention, a flower with an eight foot stem which was paraded up and down the hall and came to grief at an inopportune moment by having its head snapped off against a car door. And those who put their money into it never got it back.

The Puritan came very near being a good rose. It would come occasionally a



SECOND TEAM PRIZE.

INDIVIDUAL PRIZE

THIRD TEAM PRIZE.

PRIZES FOR THE BOWLING CONTEST.

magnificent flower and would then charm anybody. But oftener it came green centered and deformed. What a companion for Beauty it would have been had it come regularly as it did occasionally.

In looking over the records of one of the most prominent growers for the New York market ten years ago it is interesting to read the names of the roses then being forced and the prices received. They were the Bon Silene and Safrano, old favorites now dropped completely out of sight; Mme. Joseph Schwartz, the so-called "true tea Jacq" which proved good for nothing for forcing purposes; Cornelia Cook, supplanted by the Bride; Mme. Alex Bernet, too soft and not stem enough; Mme. Robert, productive but with the fatal weak stem; Souv. de la Malmaison, no good for winter bloom; Douglas, a miserable flower; Duke of Connaught, hard to grow and scared out of existence by the Bennett; Souv. d'un Ami, another weak stem; La France, which is rapidly losing ground as a winter rose; Marechal Niel, Jacq, Perle, Niphotos and Mermet. What a havoc the decade has made in this list! Only two or three out of the whole lot can be fairly rated as market varieties to-day, and even these have started on the down grade. Still it is a question whether there is as much money in rose growing now as there was ten years ago.

Two new roses, the Mrs. Whitney, put on the market this year, and the Belle Siebrecht, promised for next year, the first an American, the second a transatlantic production, have their record yet to make. If they prove valuable in various locations and under different conditions the trade will quickly find it out, for there is still plenty of room for the right kind and there are vacancies yet waiting to be filled in the list of "a dozen good teas."

PROGRESS IN CARNATIONS.

Carnation growing in America has received a wonderful impetus within a few years. The few varieties generally cultivated ten years ago have with one or two exceptions been forced to give way to new and better sorts, and the standard of quality has advanced rapidly to a point scarcely dreamed of by either the growers or the consumers of a decade ago.

In those days the main ambition of a carnation grower was to get as many flowers as possible from a plant. That was the first requisite, and every other point was a secondary consideration. There was only a very limited demand for colored carnations, growing in quantity being confined principally to the white varieties, these being picked without stems, and their main use being in the making up of funeral designs. If a bloom chanced to come in with a stem on it, this was often snapped off and a piece of wire substituted.

It was the custom to send carnations to the city stores, not under name but simply as white or colored, short or long. To this rule Grace Wilder was the only notable exception, it being the only variety of its color, and that color a desirable one and on this account expected to realize a better price.

Seedling growing was done in a haphazard way, and with no well defined ideal in view. Of the varieties introduced from 1881 to 1884, Portia and Wilder are the only ones grown now to any amount, although Alegatiere, Andalsia, Fascination, Pres. Garfield, May Queen, and a few others were grown for a while to a sufficient extent to be entitled to be called market varieties. On looking over the shipping lists of a prominent grower for the season of 1884, it appears that Snowdon was at the head of the list in

quantity grown, and DeGraw, LaPurite, Edwardsii, Wilder, Philadelphia and Crimson King constituted the balance of the stock.

From a large number of lists furnished by prominent cut flower growers as their selection of the best dozen carnations now on the market, it appears that Lizzie McGowan is the only variety upon which opinion is unanimous. The only other sorts which come anywhere near to a unanimous vote are Wm. Scott, Day-break, Helen Keller, Mme. Diaz Albertini, Buttercup, Tidal Wave, Silver Spray and Portia. Thos. Cartledge, The Stuart, Bouton d'Or, Crimson Coronet, Ferdinand Mangold, Edna Craig, Uncle John, Puritan, Red Cross, Pomona, Salmon Queen, Mrs. Fisher, Grace Wilder, Anna Webb, Hinze's White and Sweetbrier comprise the balance of the aggregate selection, from which it would seem that with due allowance for varied conditions of soil and location, the catalogue of some four or five hundred varieties of carnations might with advantage be reduced to at least ninety per cent., while to give a list of even a dozen thoroughly tested varieties that fairly meet present requirements is an impossibility.

Quite a number of the varieties above enumerated have not been in cultivation sufficiently long to insure their permanency, and careful judges have learnt from experience that it is wise to go slowly in recommending unreservedly a new carnation. All indications point, however, to the probability that among the novelties disseminated during the past two years, and about to be disseminated the coming season are several that are destined to supersede the whole list of older sorts.

The nearest approach to the ideal carnation in size and stem on the market to-day, is probably Mme. Diaz Albertini. Its

fault from a grower's standpoint is that it does not produce flowers in sufficient quantity in the early part of the winter, being most prolific in the spring months. It is very probable that at no distant day we shall have carnations of all colors, with the stout erect stem, large sized and well formed flowers of Albertini, and constant bloomers. It has been stated in some quarters that the carnation of to-day is no larger in size than it was some few hundred years ago, but it must be borne in mind that the carnations in those days were the border carnations and only produced one crop of flowers a year.

The progress in carnation culture in the past decade has not been confined to the production of better flowers. The improvement in methods of cultivation has been fully equal to the improvement made in the varieties.

Ten years ago we knew practically nothing about the diseases of carnations, and now owing to the efforts of specialists in fungoid diseases we have been brought into close contact with a number of these enemies, which are peculiar to this branch of the *Dianthus* family, some of which, the at one time dreaded rust among the number, we can now successfully combat.

The American Carnation Society has been organized within the past few years, and has been a wonderful help in the development of its patron flower in its different phases, and no doubt we shall be able to chronicle greater improvements in the Divine Flower in the next than has been possible in the past decade.

PROGRESS IN CHRYSANTHEMUMS.

The present popularity of the chrysanthemum dates back to the first set from Japan disseminated by H. Waterer in 1885. Up to that time all the varieties in cultivation had been imported from England and France. The first American seedlings made their appearance in 1887. Of those that ever saw the market, the first were seeded by W. K. Harris. Since that time more has been done in the production and introducing of new varieties of chrysanthemums than in any other line.

Ten years ago chrysanthemum shows were known only in Philadelphia and Boston. No disbudding was practiced, and in single blooms nothing over four inches in diameter was thought of, and the so-called exhibition plants were lank straggling specimens five to six feet tall, with the flowers all on top and most of the foliage in the same place.

The points aimed at in chrysanthemum culture are flowers as nearly spherical in form as possible, with petals neither too coarse nor too fine, of good lasting quality and strong individual self color, erect stem, and good foliage borne close up to the flower.

Not all these qualities are to be found in any one variety. Some sorts have one or several of these good points sufficiently to entitle them to be regarded as standards. For instance the standard of foliage and stem is seen in Mrs. Jerome Jones, but in this variety the petal is too heavy, and the center of the flower not quite full enough. Ivory may be called the standard of form of flower and texture of petal, but it lacks stem. The wiry stem of Widener is largely a matter of growth, and this variety will in the hands of an inexperienced person often come with a weak neck. Lasting quality depends much also upon cultivation.

There is abundant room for advancement still, not only in the direction of more perfect varieties, but in the manner of staging at exhibitions. A recent sug-

gestion by Mr. E. A. Wood regarding the encouragement of efforts in the way of more artistic arrangement is in the right direction, and indicates a means whereby the popularity of chrysanthemum shows may be increased and perpetuated.

We append lists of twenty-five chrysanthemums selected and recommended by two of the leading chrysanthemum authorities in America as worthy to stand at the head of the list of useful commercial varieties, including early and late bloomers.

LIST No. 1.

<p>WHITE.</p> <p>Domlnation, Ivory, Mrs. Jerome Jones, W. G. Newett, The Queen, Nivets, Miss Minnie Wanamaker, Jos. H. White.</p> <p>PINK.</p> <p>Harry Balsley, V. H. Hallock, Mermald, Eda Prass, Roslyn, Vivland Morel.</p>	<p>RED.</p> <p>Geo. W. Childs, Mrs. A. J. Drexel, Cullingford.</p> <p>BRONZE.</p> <p>Hicks Arrow, Harry May, Col. W. B. Smith.</p> <p>YELLOW.</p> <p>Golden Wedding, W. H. Lincoln, Mrs. Craige Lippincott, H. E. Widener, Mrs. L. C. Madella.</p>
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LIST No. 2.

<p>WHITE.</p> <p>Miss Minnie Wanamaker, Ivory, Nivets, The Queen, Domlnation, Mrs. Jerome Jones, Mrs. F. Bergman, Flora Hill.</p> <p>PINK.</p> <p>President W. R. Smith, Maud Dean, W. N. Rudd, Mermald, Harry Balsley, Mrs. E. G. Hill, Pink Pearl.</p>	<p>YELLOW.</p> <p>W. H. Lincoln, H. E. Widener, Fascination, Eugene Dailedouze, Challenge, Munera, Major Bonnaillon.</p> <p>RED.</p> <p>George W. Childs, Robert McInnes, Cullingford.</p>
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PROGRESS IN CANNAS.

In no line of floriculture has a greater or more popular advance been made in recent years than in that of flowering cannas. This race may truthfully be said to have been created within the past decade, it being but four years since the Mme. Crozy was introduced. True, there were such varieties as Gen. Boulanger, Emily Le Clair and others several years before the Crozy made its appearance, but it was the Mme. Crozy that popularized the canna. It proves to have been worthy of the sensation it created, for notwithstanding the multitude of varieties that have followed it this variety undoubtedly stands to-day the best canna for bedding purposes, and in habit and form of flower has yet to be beaten.

The enormous demand from this side of the water which followed the introduction of the Mme. Crozy unfortunately proved too great a temptation for the Frenchmen, and it was not long before scores of highly lauded varieties were hustled into the market heralded as great acquisitions, but proving in the majority of cases unworthy and inferior. This evil became so apparent (our growers having already learned costly lessons in the same direction with roses and chrysanthemums) that our importers have about stopped importing and their hopes are now centered for the future on the results of home efforts, and it is confidently predicted that after the present year we shall have fine American varieties in abundance seeking for recognition, with the probability that, as with chrysanthemums, our enterprising American hybridizers will soon set a pace which our European friends will find difficult to follow.

To form an opinion regarding new cannas one should be with them all summer and take the averages, for in a miscellaneous collection the list of best appearing varieties would change every ten days. The excessively dry weather of the present season has been most unfavorable for cannas. Some sorts that grew eight feet in height last summer are under

the changed conditions this season the veriest dwarfs. Hence it is impossible as yet to present a just estimate of the value of some of the newer varieties, although there are a few which give reason for the belief that they will prove valuable.

Paul Siegrist, which is generally admitted to be the best of last year's importation and which made a most favorable impression at the World's Fair, appears as a very indifferent canna in most places this year. Some growers, however, still pin their faith to it and attribute its failure to the dry weather, feeling confident that it will show up well towards fall.

Next to Mme. Crozy the two cannas most highly esteemed are Alphonse Bouvier and Charles Henderson. They are both exceedingly brilliant in color, the former being ahead in this respect. Bouvier is also the best all round bedder in the market, but is inferior as a pot plant, while Henderson makes the ideal pot plant.

Florence Vaughan is one of the best cannas in existence and stands among the yellows where Chas. Henderson does among the reds. In substance of flower it stands at the head.

Capt. P. de Suzzoni, although coming nearer to a yellow effect than Florence Vaughan, is not equal to that variety, being too tall and uneven in growth.

J. D. Cabos, although a favorite with many and effective on account of its dark foliage, lacks solidity, a plant seldom throwing up more than three or four stalks, which do not stand upright on account of lack of support.

Van den Berg, Jr., is one out this year which looked indifferent early in the season but now appears to better advantage. It is quite distinct in markings, yellow ground work speckled and blotched with red.

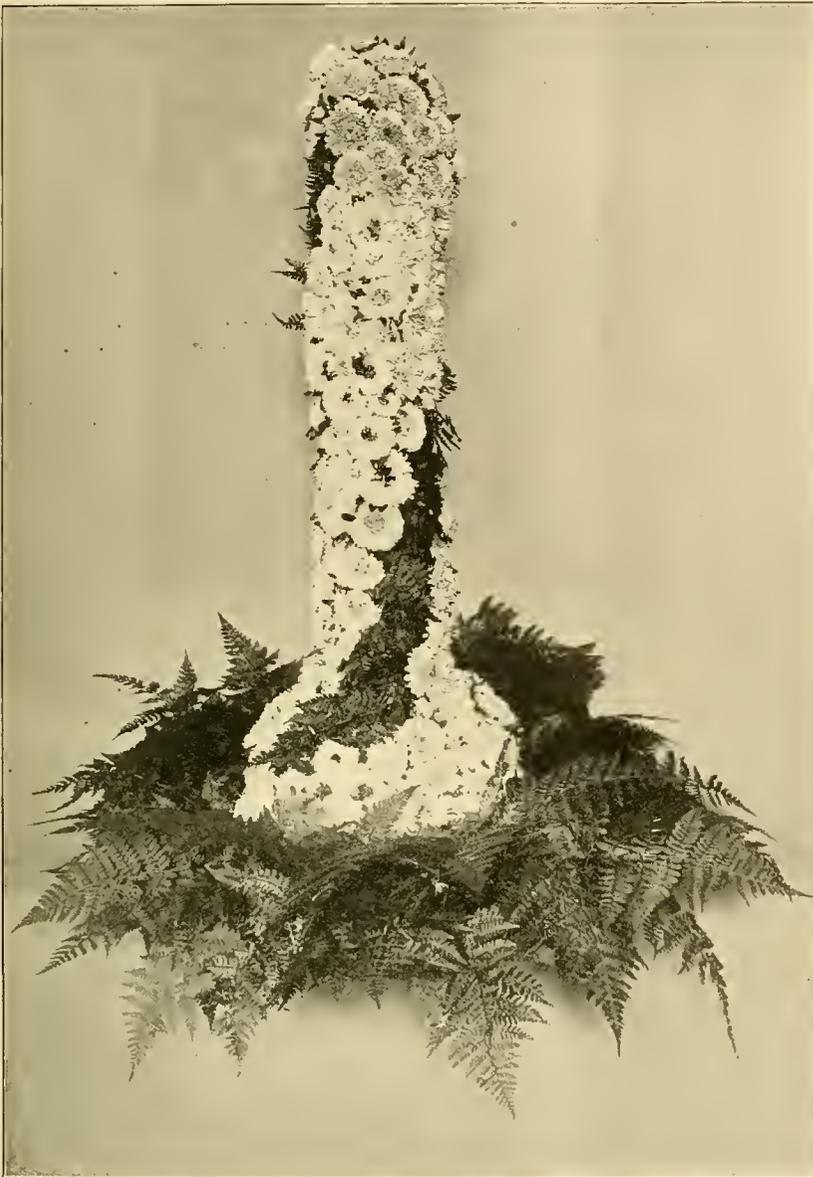
Columbia, a new variety from Kramer & Son, is in some respects, notably size of flower, clearly in advance of all the dark red cannas.

Other varieties which seem entitled to stand in the list of sorts worth growing are Comte Horace de Choiseul, which probably antedated Mme. Crozy, Pres. Carnot, also one of the older varieties, Pres. Chandon, distinct in color and nearest to pure orange, Comte de Bouchard, very similar to Florence Vaughan, the petals being a trifle flatter, Paul Marquant, distinct orange vermillion but rather too loose in the spike, Geoffroy St. Hilaire, grand for large effects, and Egandale, which is the best dark leaved bedding canna yet introduced.

Probably other varieties might be named which in certain locations have given equally good results, but the above fairly covers the various types, and certainly anything which is not equal to those enumerated should be discarded.

Konigin Charlotte, a German variety which will be on the market next year, is expected to prove a good one. Its main advance is in color. Another promising one which comes from Germany is Germania, which is said to be similar to Crozy but a dwarfier grower and larger flower than that variety. The new varieties plainly indicate that hybridizers are working mainly from Mme. Crozy stock. It is a question whether this is the best course.

The principal directions in which improvement is needed are form and substance of bloom. The flowers of existing varieties are too fragile and too easily injured by rain. There is an indication in some seedlings of a better development of the lower half of the flower and occasionally a suggestion of semi-doubleness.



BODYWORK OF BROKEN COLUMN.
ARRANGEMENT OF FLOWERS.

Both of these tendencies are in the right direction. An advance along the same general lines followed in the improvement of the geranium during the past few years would seem to be the right move.

PROGRESS IN GERANIUMS.

The requisites of a first-class bedding geranium are:

1. Suitable habit of growth, viz., dwarf and compact.
2. Ability to stand our hot suns without burning.
3. Large trusses, borne on long stiff footstalks.
4. Clear distinct colors.

The advance made in geraniums the past ten years has been quite marked, but necessarily slow, owing to the high quality of many varieties possessed as far back as 1875 and 1880. The noticeable points of improvement are in habit of growth and increased size of the individual floret.

The following list of ten best all round bedding geraniums, those which come nearest to the ideal, has been given us by

a leading authority on these plants. The varieties enumerated are selected from those that have been thoroughly tested, and not from the newer sorts that have been introduced during the past two years.

TEN MOST DESIRABLE BEDDING GERANIUMS.

Mrs. J. M. Gaar. (Single). Pure white. Dwarf compact growth, abundant in bloom. Equal to any scarlet.

Alpine Beauty. (Double). Pure white, large trusses, vigorous growth. Superior to all other double whites as a bedder.

Beauty of Poitevine. (Semi-double). Salmon pink, dwarf, free blooming. A model bedder.

Leonard Kelway. (Double). After the style of S. A. Nutt, with larger pips and a few shades brighter in color.

Lowell. (Single). A soft rich scarlet, very large truss, symmetrical habit.

Le Contable. (Double). Rosy pink in color, dwarf compact growth. Very free.

Mrs. E. G. Hill. (Semi-double). Rosy

salmon. Very fine bedded. A striking variety.

Centaur. (Double). Soft rose pink. Unsurpassed for bedding.

Bruant. (Semi-double). A strong vigorous grower, admirably adapted for exposed positions.

W. A. Chalfont. (Single). A model in growth, large trusses, A No. 1.

Convention Notes.

RECEPTION COMMITTEE.

The reception committee of the Philadelphia Florists' Club respectfully ask that all delegates as soon as they are comfortably situated in their hotels shall call at the convention hall and register, giving the hotel at which they are stopping. They will at the same time be given the tickets and program of the social part of the convention.

THE LADIES' COMMITTEE.

The ladies' committee are particularly anxious to find out how many ladies there are, so they can provide sufficient cars to carry the party to Carisbrooke Inn, where their reception is to take place. The railroads are very much pushed at this, their busiest season, and asked the committee to give them all the notice they could, as cars were very scarce.

SPECIAL MEETING OF PHILA. CLUB.

At the special meeting held last Tuesday evening the report of the committees showed that a great deal of work had been done and everything is in first-class shape. If the weather man will only favor us all will be well.

THE SHOOTING MATCH.

The committee on shooting match had on exhibition the prizes and they are beauties. The first team prize is a sterling silver loving cup with design representing a seashore scene of sportsmen shooting at birds on the wing, the bottom of cup is washed by waves and a lighthouse is seen in the distance. The second prize is a smaller cup of sterling silver of much the same design as the first, there is no third prize. The teams are to consist of five men each instead of six as at first intended.

There are three individual prizes for the highest scores. The first is a sterling silver flask which seems as necessary as a good gun on an expedition after game. The second prize is a pair of silver mounted opera glasses, and a silver corkscrew with a buckhorn handle is for the third best. The individual scores made in team shooting will have to come in competition with anyone else not on a team who desires to shoot. The committee thought it a pity to debar clubs who have not enough members present to make up a team and they will allow them to shoot as individuals for the individual prizes. The ordinary shooting rules govern in this contest and all persons taking part must be members of some regularly constituted organization of florists, all members of the Society of American Florists. The match will take place on the Iron Pier, which is 1,000 feet long by 50 feet wide, with a large pavilion on the extreme end which is to be used for the entertainment in the evening.

THE BOWLING MATCH.

Of the engravings presented in this issue the single vase is the first team prize, the largest pitcher and tray is the second team prize and the smaller pitcher goes to the team making the third best score. The small cup is of sterling silver and is the individual prize for the highest score in the two games.

The prizes for the individual bowling contest are three diamond scarf pins valued at \$20, \$15 and \$10. They will be useful souvenirs of the occasion.

See page 44 for the rules that will govern the contest.

THE TRADE EXHIBIT.

Superintendent Watson has secured the G. A. R. Hall, opposite the Odd-Fellows' Hall, for an overflow exhibit. The hall is 40x25 feet and he thinks he can now accommodate all comers. See full description under head of "Industrial Progress" in our article entitled "The Progress of a Decade."



Chrysanthemum Notes.

Now comes the beginning of the trying times for the grower of exhibition blooms, for on the plants that were propagated early the first of the crown buds are beginning to form, and to "take" or not to "take" the buds is the question. The difference between crown and terminal buds is already well known to the readers of the FLORIST, for in the very thorough paper read by Mr. Elmer D. Smith on chrysanthemum culture before the Society of American Florists last year at St. Louis, and published in the issue of the FLORIST dated August 10, 1893, these two buds and their capabilities were very fully discussed and illustrated. Our English cousins, who strike the cuttings of some of the varieties as early as November and December, take the buds of a few of them as early as the first week of August, but the last week in August or the first week in September is plenty early enough for us to begin in this country. Some one may ask why; the reason that is generally given is that our autumns are bright and clear and sometimes quite warm, and the wood ripens much more easily and quickly than on the other side of the water. We find in referring to our diary of 1891 the following "Don't take any buds until after August 20," and this is underlined, so that no undue zeal or impatience shall lead us to the taking of buds prior to that date and thereby spoiling the bloom which could have been produced, as we did in many cases that year.

We have used the word "take" or "taking the bud" a great many times, and perhaps it will be necessary to explain this to some of our readers. The expression really means the selecting or leaving the bud and the taking away of the side shoots so that all the strength of the plant will go into the bud which is left. This must be done very carefully and as early in the growth of the bud as possible. In taking the buds we have always rubbed out the shoots with our fingers; some growers use a knife to cut them off with, but in our early efforts at growing the sharp blade would sometimes slip and not only cut off the side growths but the bud itself. The early morning is by far the best time to this, for the succulent growths are then full of sap and very brittle, and if just pushed out from the axil of the leaf by the thumb or finger will break off very easily and without danger of doing damage. The plants

must be looked over every morning after you begin to take the buds, for if the shoots around the crown bud are left, but for a short time, they will have sapped the strength from the bud, so that it will never make a good bloom, and will sometimes wither up and blast. Some growers leave one of the three shoots that always form around the crown bud for a few days, in order to see that the bud is all right and then nip it out, but if the bud looks deformed or does not grow, they rub it (the bud) out and depend upon the terminal bud which will set on the shoot retained. This is simply done, in most cases, as a precautionary measure, and we would advise growers who have had but little experience with crown buds to follow it when the bud is not discovered early, and the shoots have made quite a little growth above it.

Keep the plants well tied up now, so that the stem will be as straight as possible, for crooked stems decrease the value of the flowers, but don't tie so tightly as to choke the plant later on when the bud begins to swell and unfold. Tie very loosely now, for the stem will be fully double as large by the time the bloom is ready to cut. We have seen many a bloom that would have been good, spoiled by too tight tying, for the string cut into the outer bark before being observed by the grower, and when the liquid feeding began the bloom was choked and did not get the full effects of it.

This is the last time we shall have a chance to urge our readers to attend the meeting of the Chrysanthemum Society of America on Wednesday afternoon, August 22, at Atlantic City. We would like to see as large a number of the lovers of the Queen of Autumn as possible. Let us all meet with the one idea in view of making this society second to none of the auxiliary societies of the Society of American Florists, and if you have anything in your mind that you think the society ought to do don't be afraid to stand up and say it, for you will find the officers and members very approachable and willing to do anything that the members want done. So come every one that can, and give us the benefit of your experience, however limited it may be, and acquire all the knowledge that you can in return.

ELIJAH A. WOOD.

West Newton, Mass.



A Few Notes About Orchids.

[Read by Edwin Lonsdale before the Florists' Club of Philadelphia, August 7, 1894.]

When, at the last meeting of the Florists' Club, I requested to be excused for not having prepared a paper to be read on this subject, giving as a reason that I did not have the time necessary, I felt then that I had abundance of time to, at least, make a creditable attempt to do justice to so fascinating and interesting a subject, to-night; but the nearer the time approached for the reading of the paper, the more difficult the task became. However, I must do the best I can, feeble though the attempt will be.

Orchids are slowly but surely taking their place among the popular flowers of the day, as they are being called for more

and more each season. To the leading and progressive florists in this and other cities is the credit largely due for this state of affairs, and the flower loving people are quick to appreciate the intrinsic merits of these aristocrats of the floral world. Cattleyas I believe to be the most popular orchid flower at the present time. Firstly, they have size, a great desideratum in the present status of our chosen profession. In colors, generally, they are pleasing, the forms are unique, and some have a delicate fragrance. And they may be had generally all the year round, that is to say, if the different species are selected with that end in view. Commencing with *C. labiata autumnalis*, which flowers in the fall, then *C. Trianae* and *C. Percivaliana*, both of which flower about the same time, but the flowers of the latter are much smaller, as a rule, than those of the *Trianae*. There is consequently no object that I can see in growing the *Percivaliana*, only perhaps on account of the brighter colors which some of the varieties possess and which may suit some tastes. *C. Mossiae* flowers in May and June, then comes *C. Mendelii*, and *C. Gaskelliana* in the order named, following each other for the summer months. It is understood, of course, that there is only a very limited demand for choice cattleya flowers in summer time, excepting at or near by summer resorts—mountains and seashore.

The cypripedium is perhaps the best orchid for general use; especially does this apply to that best known species, *insigne*, which if rationally handled, blooms at the time of year when it is appreciated and very useful. December is the month in which it is generally in its glory, when it may be kept perfectly until the holidays—Christmas and New Year's. Some horticulturists have been heard to say "that it keeps almost too long." From our standpoint I do not believe that cypripediums can last too long. The complaint among flower buyers is generally the reverse of this. The cypripediums certainly dispel the idea that all flowers are short-lived. This very lasting quality in some orchids endows them with a great mission in horticulture. The long keeping nature of the flowers attract inquiring minds closer to them on account of their great worth in this respect. "How is this?" they will meditate, "the beauties of a rose are faded in one night, whereas this orchid is perfect after it is two weeks old." And the more we can interest the people to think about horticulture, the happier they will be, and horticulture will in that way make friends. *C. Harrisianum* is a hybrid, and I believe the first that was ever raised artificially under cultivation. It is a cross between *C. villosum* and *C. barbatum*, and one of the freest bloomers among all cypripediums. *C. Lawrenceanum* is another good commercial variety, blooming in some instances three times in a year, and rarely failing to produce two crops. There were some doubts expressed by experts as to the advisability of buying this species for cut flowers when first introduced, because as they knowingly expressed themselves, "It blooms at the wrong time of the year." *C. insigne* was looked upon as the standard orchid at that time, and when anything did not bloom at the same time of the year, they shook their heads in doubt. Any orchid which produces its flowers during the months from the latter part of November until June can generally be disposed of, and in my humble opinion, it adds value to a variety if it blooms later in the season than is the natural blooming time of *C. insigne* or *C. Spicerianum*,



BROKEN COLUMN COMPLETED.
ARRANGEMENT OF FLOWERS

and similar types, for thereby is the season prolonged.

The new *Cypripedium Charlesworthii*, from present indications, may prove an acquisition from a grower's standpoint, but whether its coloring and other distinguishing characteristics will prove popular or not, remains to be seen. Very few blooms have been produced so far under cultivation. None to my knowledge in this country, excepting from a plant or so belonging to H. E. Graves, Esq., Orange, N. J., under the fostering care of Robert M. Gray, gardener. I saw a batch not many days ago, which was imported last spring, and several flower scapes were prominent, so that we may reasonably expect to see some of this novelty in bloom within a very short time in this city.

"*Cypripedium niveum*, though hardly a commercial variety for cut flowers, is nevertheless, one of the most delightful of all cypripediums when it is happy and in full flower, its elegant white flowers, sometimes speckled all over with tiny purple spots, being without equal in the

genus. But it is a bad plant to manage in most collections, being more liable to the dreaded orchid disease known as 'spot' than any of its congeners. I am told by a friend who has seen it growing wild in the islands off the Malay Peninsula that it is always found growing on the face of limestone rocks not far from the sea, its roots nestling among the debris formed in little depressions in the rock, and its leaves exposed to full sunshine. It gets completely dried up for a portion of the year, but when the wet season returns it soon recovers and flowers profusely. No doubt we fail with this plant through growing it in the ordinary peat mixture in a moist, shaded house, and keeping it watered all the year round." So says Mr. W. Watson, London, England, in *Garden and Forest*, May 25, of the present year, and I believe that other cypripediums of similar characteristics will be benefited by a similar course of treatment, as indicated.

Some of the species of dendrobiums are also among the useful orchids which may be classed as desirable for cut flowers. D.

nobile is one of the oldest and consequently best known, and though part of the pseudo-bulb has to be cut away to give satisfaction to the flower buyer, the plan of carrying two sets of plants, one to produce flowers this year, and the other the next, makes it less difficult to keep up the necessary supply than it would at first sight appear. The way this species of dendrobium is grown by one celebrated gardener in England whose success with it over there is marvelous, and is a revelation to some of us in America, is worth repeating. I cannot do better, therefore, than to give you word for word what the *London Gardening World* has to say about the way Mr. H. C. Princep grows this species:

"The plant figured is 6 feet 3 inches through, but the largest of the pair measures 8 feet in diameter. This, Mr. Princep informs us, was put into a larger basket 22 inches square, while the one illustrated remains in the same basket as it was shown in two years ago. The one which was put in a larger basket grew away very rapidly, and made growths from 3 feet to 3 feet 6 inches in length, but owing to the house not being large enough for them to be staked in an upright position they were allowed to hang down, with the result that they were not ripened up to the points, and consequently did not flower their full length. The other not being so strong had its growths placed up near the roof, so that they were thoroughly ripened, and flowered right up to their tips, thus showing the advantage of being able to ripen them thoroughly. The plants were kept in a cool house during winter, in which the temperature ranged from 45 to 50 degrees. Most gardeners and florists know the value of this popular old dendrobe, and many grow it remarkably well, but Mr. Princep certainly goes one better with it than any other grower of our acquaintance. He grows it largely in all sizes and in batches, so as to secure a long season of bloom, and cutting down is a sine qua non, for he uses them largely for room decoration, and may literally be said to gather them in sheaves, for he cuts down the stems their whole length and every year, a practice which but a few years ago would have been considered sheer madness, and we opine would be a dangerous experiment even now in the hands of a less skillful plantsman." Mr. Princep is head gardener at Buxted Park, Uckfield, Sussex, and is an old Enville man, and a friend of some of his old associates who are now in this country. We congratulate him on his great success, which is worthy our most ardent emulation.

Well flowered plants in baskets from 6 to 8 inches square would make very desirable Easter gifts, as they would remain in good condition for some time in a comparatively cool room in a dwelling. *D. formosum giganteum* becomes a favorite wherever seen, its beautiful pure white flowers with yellow blotch on lip appeals to every one, but it is doubtful if it is profitable to grow, as so far with us it has degenerated under cultivation. *D. Wardianum* also has many admirers, but under our treatment it has the same fault as the last named, that of depreciating in value the longer it is grown. The comparatively new *D. Phalaenopsis* is an ideal cut flower. It may be cut in generous sprays from well grown plants, and its value to the grower is enhanced by the fact that it may be cut with a sufficiently long stem, without cutting the pseudo-bulb.

Lælia anceps and some of the other species and varieties of *lælia* must not be

forgotten, as they do well in our climate with very little care. Some of our plants last year, that are growing in baskets 8 or 9 inches square, had on them from 10 to 14 spikes of bloom. They do not last quite as long after being cut as some other orchids do, but add variety, and are desirable on that account.

One very important aspect of the orchid subject is the prices at which the flowers are sold. Orchids never should be allowed to become a cheap flower. There is a class of fastidious buyers who do not want flowers when they may be bought cheap. Orchids should be held in reserve for these patrons, and never should be put into the hands of the "fakir" or the "Greek." Some growers, I am afraid, judging from the prices at which they offer their products, are not fully aware of the cost of production, nor do they allow sufficient margin for interest on first cost, and there are some in the retail business, I regret to have to say, who are continually "bearing" the prices of this and every other flower without any real advantage to anyone. The first cost of orchid plants is considerable, and had it been possible for me to have had the remotest idea of what that cost to me would have been by this time, when my first orchid purchase was made, I never would have embarked in the enterprise, with the end in view of growing them for profit.

There is a fascination about orchids which is almost irresistible; especially does this apply to an enthusiastic horticulturist who grows plants and flowers as much for the love of them as for the prospective profits which he may hope to obtain. However, since they have by their own intrinsic worth, assisted by wide-awake florists, made themselves indispensable, let us all pull together to educate ourselves and the people to esteem them at their true value.

And in conclusion, allow me to say that every legitimate effort be made by all of us to draw the people in closer communion with horticulture. When botany is taught systematically in all our schools, public and private, and when the school boy or girl will pause long enough from their play to analyze a flower by the wayside, according to the latest lights in botany, then we may reasonably hope for a cessation of conflicts between capital and labor, and the tendencies towards anarchy be relegated to the past.



TO PREVENT RUST.—Dissolve one pound of sulphate of copper in two quarts of ammonia in a 2-gallon jar. When dissolved add another quart of ammonia and stir well. [The liquid can be kept in this form for some time and used as needed.] Add a pint of this solution to a barrel of water and syringe the plants with a force-pump every two weeks. And don't let the time for spraying pass without attending to the operation.

Carnation Notes.

An inquiry before me asks "When should carnations such as Portia, Silver Spray, etc. be topped last?" This will depend somewhat on how you top your carnations. I passed through a patch the other day where a large shears was used to top them with, and all the branches

were cut down close to the plant, and with them of course went plenty of the foliage. Topping them in this way they should not be gone over later than the first of August. I advocated some time back that only those shoots that were showing signs of going into bud should be cut out and even those should not be cut when very low on the plant. If this method has been followed they can be topped the day you plant them in. During August I go over my plants some three times, taking off only those branches that are actually showing buds. It is very hard in carnation culture to say "do this" or "do that," for so much depends on the condition of the plants. Take a very large vigorous plant and it will be better to top it up to the 15th of August, and then when it is planted in cut off the buds. A smaller plant from which you will want to cut some flowers during September and early in October will not want much cutting back.

Some growers do not cut back after the first of August, allowing their plants to get filled with buds before planting in, and they get along fairly well with them, but such plants are very much harder to start off nicely, and do not have the vigor afterward that a plant has which is not required to open flowers and recruit from the transplanting at the same time.

I make it a rule and find it a good one to go over the field ahead of diggers when planting in and trim the plants up a bit, taking out a branch here or there to put the plant into a nice neat shape, and cutting off all buds down to the first shoot next the bud. This does not take up very much time and makes quite a difference in the appearance of the house when planted. After this is done I next take a bunch of stakes and mark all those plants that are under size or that are not wanted inside from any cause. These smaller plants are left to stand until probably the first of October, as they grow very rapidly through September; then if there are any missing in the houses we have fairly good stock to fill in with, and if there is any room left in the houses they are planted where they can be forced a bit and made use of in this manner, or they can be potted up and kept cool until spring, when they will make excellent plants for spring sales where there is trade that calls for them.

It is not a day too soon to commence planting in, and after we get back from the convention we should get to work in earnest, especially if there are a number of houses to plant, for it does not pay to leave them till the last minute and then rush them in carelessly. Where there is only a house or two it is not quite so important to start early, but the plants should all be housed by the 15th of September to get the best results from them.

ALBERT M. HERR.

Arrangement of Flowers.

X.

FUNERAL DESIGNS OF A HIGHER CLASS.

We will now consider funeral designs of a higher grade than those previously treated. These designs need not necessarily be expensive, but such a piece as the broken column shown in our first and second illustrations must of necessity be of some size in order to properly bring out the details of arrangement, and this brings up the cost, even when made, as this one is, of summer flowers, to a figure somewhat higher than the ordinary run.

A column well arranged makes a fine piece, and the design is quite popular

where expense is not so much an object. The larger the design the better the effect, provided the surroundings are in keeping with the size of the design. A 6-foot column is all right for a church or hall, but would be out of place in a small room. On the other hand, as already stated, this design to be effective should be not less than 2 feet in height. The design we show stands about 30 inches high, with a base 12 inches in diameter for the frame. The flowers do not add much to the height when finished, but the base being arranged loosely adds considerably to its size in the finished state.

In mousing up this design we must be particularly careful to have the moss uniformly firm. An inexperienced hand is apt to pack the moss too hard, particularly in the upright shaft, and the base again is apt to be left so loose as not to hold the picks firmly. The stemming of the material for this piece is in no wise different from what has already been treated. The arrangement is, however, somewhat different from those styles illustrated before, as will readily be seen.

The column as seen in the first plate in its incomplete form only shows the arrangement of the solid base work for the shaft and the green in the base. In making up this piece we start with the upright part, first laying on the ferns to serve as background for the garland of loose material to be arranged afterwards. The number of turns to give the garland around the column depends on its height. This being a rather small size it is passed around but once. The ferns are held in position by small wire staples before mentioned. When we have marked out the line the base flowers are inserted first around the sides of the proposed garland, which in width also depends on the size of the piece. In this instance white asters are used for body work, but many other flowers may serve equally well, particularly carnations, which latter are mainly used in winter. The flowers are placed closely together in order to form a smooth and even surface.

For the top of the column, which shows the break, we might use a flower with some shade of color; purple asters were used here, but a number of different things can be used with good effect, such as blue or purple pansies or violets when in season.

This mode of blocking out the design as shown here is not always followed in detail by the various makers up. Many prefer to fill in the entire shaft with body flowers and then arrange the garland or spray over it. This is, however, a waste of material in the groundwork, as the material underneath the garland will be lost.

The material to form the garland should be stemmed in length according to the size of design, but should in all cases stand well above the body flowers. Roses in various tints are effective for this work. These and sweet peas are probably the best at this season of the year. Lily of the valley, if to be had and the price of your piece warrants their use, are excellent, and for a particularly choice piece there is nothing richer than a spray of cattleyas. In the design under consideration we employed Bridesmaid roses with *Adiantum cuneatum*.

The flowers in the base are quite long stemmed, set loosely, and consist of auratum lilies in the left hand corner and Testout roses on the right, with a grouping of white sweet peas and Bride roses between.

The cross which is shown in the third



STANDING CROSS
ARRANGEMENT OF FLOWERS.

plate is treated in a similar way, and the same rules of procedure hold good as in the former.

This piece is designed for front view only and the back is covered with green. This design stands about three feet high. The flowers forming the spray around the cross starting at the base are Blanche Ferry sweet peas with sprays of *Asparagus plumosus*. It is needless to add that the various other varieties can be used equally well. In the base, which is treated loosely, we have a few spikes of gladiolus of a light shade and white cosmos.

LETTERING OF DESIGNS.

While in a general way we deprecate the use of lettering on designs for the reason that nine times out of ten an otherwise handsome piece of work is injured and often simply ruined by these inscrip-

tions, still we will probably never be able to do without it as long as the people demand it. But we should discourage the practice as much as possible and then confine ourselves to the least objectionable forms.

It matters but little what sort of material we use for the formation of letters. If made of natural flowers these will necessarily be so mutilated as to be scarcely recognizable by their best friend. The purple immortelle has been used for the purpose for many years, and is still popular in many localities, although in late years chenille has come into use and is preferred by many. Still there is not much to choose between the two, as both materials form a good legible letter. The letters formed of natural flowers are not very much better as a rule; if the lettering is small there is difficulty in forming the letters so as to make them legible.

In funeral work we have to confine ourselves to a comparatively few varieties of flowers, that is if the lettering is to be done on a white background. Violets in winter and forget-me-nots in summer are among the best. We shall speak of these and others later in connection with some design where this lettering might be employed with propriety. Of course the lettering is not confined to funeral work alone, and for other occasions any color can be used; of this too we shall speak later.

For the present we have confined ourselves to but one illustration, that of a pillow which shows the lettering in script on a background of white carnations. The letters are formed of purple chenille, which is readily bent in any desired form and fastened over the carnations by means of small wire staples. The style of the letters can be changed to suit the fancy, some preferring the block letter and others fancy script or some other form.

A pillow is probably one of the very best designs to admit of lettering without detracting too much from its general appearance, and for that reason it is generally chosen for that purpose. There is little objection to a simple inscription on this design, such as a name or "Rest" or "At Rest," as this takes up but a small amount of space and allows ample room for displaying flowers to give a loose effect.

The arrangement of a pillow differs in no material point from that of any other design already considered. The blocking off of the form with a solid mass of body material, the same as forms the surface for the lettering, and then festooning over that, as practiced some years ago, is not much resorted to at the present day, where generally the material is arranged loosely, surrounding the space for the lettering on a background of hardy ferns as shown in our illustration. An engraving of the finished design is also presented in this issue.

The material employed consists of sweet peas, lavender in the right hand upper corner and white in the lower left; and Bride roses in the upper left and Mermets in the lower right, with a few auratum lilies beneath the lettering, the whole being interspersed with adiantum.

Miscellaneous Seasonable Hints.

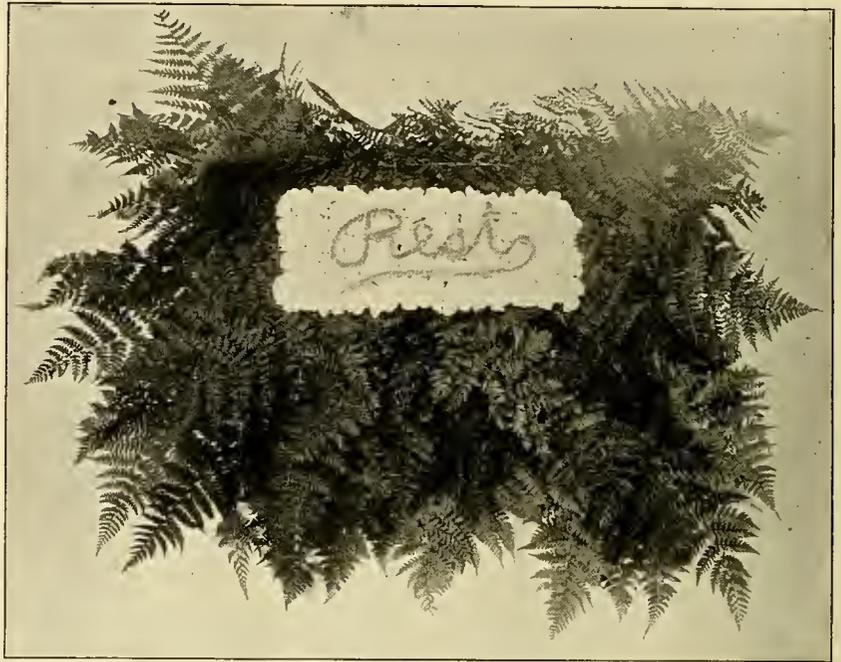
For this latitude the middle of August is time enough and to spare for sowing pansy seed for your spring sales. An eminent grower, perhaps the best on this continent, has been kind enough to disseminate to all his friends and patrons the plan pursued by a renowned French grower. With all due respect to our friend in Massachusetts, I entirely disagree with the advice of the Frenchman. I have seen the plan tried by careful people this summer with very poor results. It is risky, to say the least, and there is no need of experiments. What the French, German or English do in such matters is no criterion to us; they can delegate a professor on pansies to examine the state of the seed bed three times a day, but we cannot. I have invariably got up all the seed I sowed by sowing in drills in an ordinary frame. The drills are certainly slower than broadcast sowing, but what is \$2 worth of labor when the seed costs \$10 per ounce? Place a 2x4 scantling on edge at the back and front of the frame, and on those place heavily shaded sash. By this plan there is a current of air passing over the surface of the bed at all times. When the seeds have germin-

ated and are showing their first pair of leaves (cotyledons) you can spread the sash, and on dull and cloudy days remove entirely. As the season advances it will be more congenial to the violet tribe, and two weeks after they show above ground the sash can be removed entirely. If the weather is very hot and dry in September, red spider is often troublesome to the young seedlings; a constant watchfulness against dryness and a horizontal syringing will keep this pest down.

Now, right now, but no time lost, is the time to propagate the show pelargoniums. Suppose you have the plants that were unsold in April and May, and you have kept them growing as you should, they will have now made a good growth, but be entirely out of flower. Cut them down to within two eyes of last year's growth; don't be afraid, you can scarcely cut them down too severely. The leading growth will perhaps root the sooner and make the ideal plant, but the cutting below that will make a good plant. It is much the safest to put the cuttings in sand and keep moderately moist. That is, they don't want to be saturated as a "mum" cutting does at this time of year, neither do they want to be allowed to get very dry. Too heavy a shade is not good for them. The old plants, unlike the zonal pelargoniums, our common geraniums, are of the greatest value to you. After they have been cut down stand them on the bench and let them get dust dry, or only give them sufficient watering to keep them from shriveling up. In a couple of weeks they will show signs of budding, and after they have made a slight growth, say half an inch or so from the old stem, then shake them out, leaving not a particle of the old ground on them. Pot them firmly back in a *smaller* pot than they flowered in, treat carefully for a few weeks, and you have the start of a fine plant. Although the so-called pelargonium is just as much a geranium as the common General Grant its cultivation is entirely different.

There is a good deal of violet literature going the rounds just now, and perhaps those who are getting the best results are saying little. The advice I give is so sincere that it is what I do myself and have seen others do who are invariably successful with this capricious crop. If you have any good looking plants in the field, small but healthy, or better, if you have any in 2 or 3-inch pots that you have kept in a shady place up to date, plant them at once in the house they are to flower in. My experience is that the so-called violet disease (and it is a disease) makes its appearance in the early part of September, when the dews are heavy and the sun is bright. Why it should make its appearance at that time, I don't pretend to explain scientifically. There are some peculiar soils, and perhaps situations where this trouble may not arise, but it is safest to have them housed at once. The old theory that violets wanted sunlight is utterly exploded. Some of the best violets that were ever grown, were grown last year in houses at the rear of rose houses, where no direct ray of sunlight ever touched them from November until March. Some might say it is warm for violets now under glass; remember that a heavily shaded house with plenty of ventilation is actually cooler than it is outside, fully exposed to the sun, much cooler. Put on plenty of shade and keep well syringed.

Now is the time to propagate your stock of alternanthera. Carpet bedding has received a set back this past year or



PILLOW WITH LETTERING IN POSITION

ARRANGEMENT OF FLOWERS

two, but these brilliant little tropicals will never go out of fashion. Get some flats of convenient size, say 2 inches deep, have 1 inch of soil and 1 inch of sand on top, put the cuttings in thick and keep watered in a shady house. In a few weeks they will be well rooted, and long before cold weather will be stocky little plants, able to endure rough treatment during winter. This advice is particularly to be followed with the variety more difficult to grow and most valuable of all, paronychioides major, the bright scarlet.

Although somewhat foreign to the florist business, I know many of you are asked to do a little "landscaping" in a small way, and perhaps you are not all aware that there is no better time in the whole year to sow grass seed for a lawn than the end of August or very early in September. There is no doubt this is the best and surest time of all to sow for a lawn.

While outside of our legitimate order of business, let me say that you are asked very often to supply some so-called evergreens (properly conifers) for your customers. You can transplant them *now* or any where before the middle of September with perfect safety. If done during this time there is no risk; if not convenient to plant by that time, leave it alone until next May or June. Evergreens, unlike deciduous trees, want to be planted when their roots are active.

It seems like telling a florist to keep good habits to say paint, but oh, don't spare paint brush and pot if you intend to continue in the business. One great advantage of the butted glass and cap is that outside painting is entirely dispensed with, except for appearance sake, but with the old fashioned lapped glass you must paint to keep the water out, annually if possible, and a coat of paint inside makes, as far as the health of the plants is concerned, a new house.

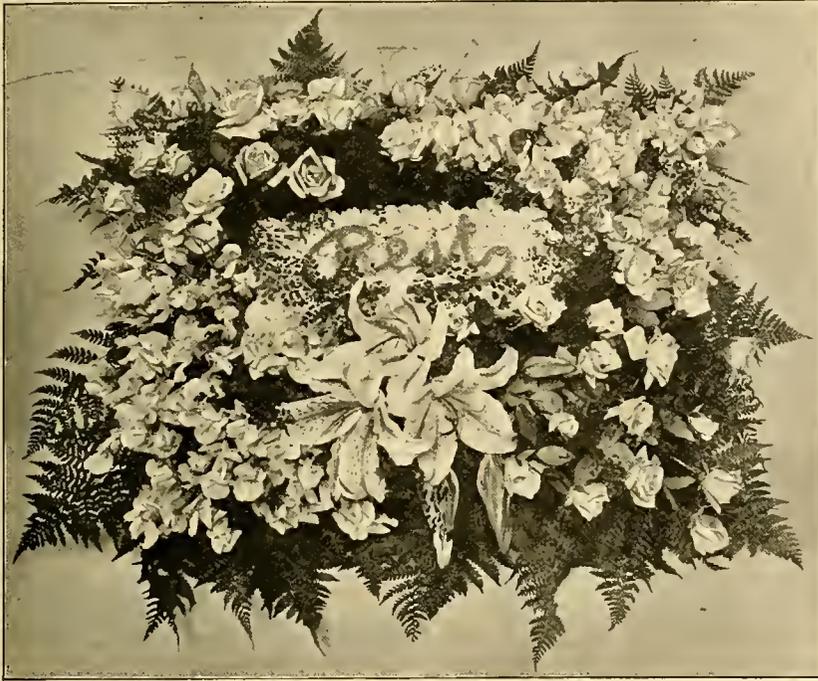
WM. SCOTT.

Palms in Summer.

This class of plants suffers more from inattention in summer than anything else that is grown, and principally from lack of water. The palms are gross feeding plants, and when in growth like plenty of water. I would much sooner see a rose or chrysanthemum flagging from drouth than see a palm get dust dry at any time. These plants do not show the evil effects of dryness at once, they give evidence afterwards by the weakness of the young leaves, by the foliage turning a sickly yellowish green, or by the tips of the pinnae turning brown or dying.

While I do not believe in overpotting palms if proper attention is paid to the watering they will do in much smaller pots than many put them in. If badly potbound shift, if not give a stimulant in the shape of weak manure water. Some of the palms, especially the phoenix, will get so root-bound as to raise the balls above the rim of the pots, and to keep them down requires a pot out of all proportion to the size of the plant. With these it is a good plan to stand the pot in a saucer, or to plunge the pots in sand or ashes to keep them from drying out. With arecas if allowed to get too dry they turn yellow and get an attack of red spider; the only cure for this is moisture at the roots and foliage. If it is a bad attack of this pest mix whale oil soap, sulphur and water and give the plants a good syringing with it. Let it stay on the foliage twenty-four hours and then syringe off with clean water; one application will generally effect a cure.

Kentias, seaforthias and cocos are liable to thrips from the same conditions, and can be cured by careful fumigation and liberal syringings afterward. Palm houses should be shaded at this time of year, but not as heavily as many growers consider necessary; if proper attention is paid to watering they do not need as much shade as is oftentimes given them. The more air and light they get the more



PILLOW COMPLETED.
ARRANGEMENT OF FLOWERS

hard knocks they will stand when used for decorating. They should be syringed morning and evening, and watered when dry.

The finest palms I ever had were grown out of doors in summer; when shifted in June they were put outside under the shade of trees, and at the north side of some large buildings, where they were well shaded. I plunged them to the rim of the pots in coal ashes, and unless it rained they got a good syringing with the hose every day. The growth that they made was surprising, and the color of the foliage was perfect. The plants were clean, not an insect of any kind on them, and so hard that they stood the winter's work much better than those carried over in the houses. Palms are easily taken care of and easily grown, and with very little attention make good plants; in fact they are as easily grown as a geranium and are much less trouble than a house of roses. To grow them well all you need is good drainage in the pots, plenty of water at the roots, good syringing to keep the foliage clean, and if you get scale on the foliage clean it off with sponging, but if your plants are healthy and kept so you have no trouble keeping them clean. JAS. S. TAPLIN.
Hackensack, N. J.

New York.

A spirit of discontent broods over that portion of this community whose business it is to raise roses for the cut flower market, likewise that portion whose unhappy lot it is to find customers for this stock in this dullest of dull seasons. No one can find fault with a man for feeling dejected when he sees his invoices come back with returns thereon which scarce pay for the express charges, but equally deserving of sympathy is the commission dealer who finds himself on a Saturday afternoon, after every store has closed and everybody who can afford it has gone out of town, with an express wagon

load of roses heaped in upon him and the responsibility of turning it into money placed on his shoulders?

The fact is, and it has been alluded to before in these columns, that there is entirely too much stock grown for the mid-summer demand. If it could be reduced by eighty or ninety per cent, the result would be a fair price for good material.

Another discouraging feature of the situation is the quality of the stock and the unaccountable and worse than useless attempt of some growers to make use of winter expedients in summer trade. Think of it. Five and six grades of American Beauty on the invoices, all carefully counted and measured, and the buds rated as second and medium grades would not compare in size or finish with a decent Gontier or Bon Silene. Just such stock is coming in by thousands daily, and what can be done with it? The stores don't want it, the Greeks turn it over and over until it is nearly worn out before they will decide to touch it; there it is, you can't eat it; to what use can it be put? And so it comes that American Beauty is sold as low as fifty cents a hundred.

Still, a limited number of really fine specimen blooms, and the number available is very limited, will sell for \$15 per hundred. Every store can use a few of such daily. Roses of the more ordinary varieties go very slow, pink seeming to be for the time a most unpopular color. Among white roses Kaiserin Augusta Victoria seems to be a favorite; it is coming in in good shape, and its delicious perfume will carry it anywhere.

Sweet peas and asters, which have been trying apparently to monopolize the "glut" department have been obliged to accept the company of the auratum lily, which now goes begging at \$1.50 a 100. Over at Burns & Raynor's the walls and benches are being painted up and renovated generally, and it is an even struggle between the paint and several hundred auratums as to which will smell the

strongest. More or less cleaning up, painting and varnishing is going on generally, and the safest place for a visitor is a standing position in the middle of the floor. Any attempt to lean up against wall or post or to sit down on bench or table is apt to be rudely frustrated by a vigorous chorus "look out for paint."

Reports from various watering places are not very encouraging. These resorts are well filled up, but the people are not buying flowers, and the hotel landlords are getting what money is being circulated.

The absentees are beginning to return. Chas. Schwake got home on August 2 and W. H. Siebrecht on August 8. These two gentlemen started off together and visited about half the European countries, enjoying themselves hugely. Winfried Rolker returned on steamer Columbia, Friday, August 10.

On Thursday, August 9, the residence of Herman Rolker, corner Ocean avenue and Lincoln Road, Flatbush, was damaged by fire. The flames were fortunately confined to the garret and roof, but furniture suffered considerably from the combined effects of water and the energetic efforts of Flatbush neighbors to save it by dumping it out of the windows.

Warendorf is making extensive improvements in his store and when completed he will have one of the finest florist's windows on Broadway.

There is some talk in the air of a market at the foot of West 14th street to rival the 34th street institution, but it is not likely to come to anything.

The New York *Tribune* in a recent issue gave a very interesting and truthful description of the lily ponds of Wm. Tricker & Co. at Clifton.

The regular monthly meeting of the New York Florists' Club was held on Monday evening, August 13th. The meeting was a large one and very earnest and harmonious. The various amendments to the by-laws proposed by the committee which has had that duty in charge were all adopted without dissent and the committee thanked and discharged.

The transportation committee reported that a special train would convey the New York delegation to Atlantic City, leaving New York via the Philadelphia & Reading Railroad at about 10:30 o'clock Monday morning, August 20, and the delegations from New England and other northern points are expected to join the New York party. Stops will be made at Elizabethport and Red Bank, N. J., to take on those wishing to join at those points. Badges for members will be ready at Liberty Street Ferry before departure of train.

The executive committee had been working on the matter of holding a fall exhibition and reported progress, a full report of details to be ready for next meeting. It is proposed to hold the exhibition on a somewhat limited plan, with premiums confined to the medals and certificates of the club.

A communication from the Philadelphia Club asking that New York be represented at Atlantic City by a shooting team was received, but it is doubtful if such an arrangement can be made owing to lack of time.

It being announced that a plan was on foot to nominate Edwin Lonsdale, of Philadelphia, for the next president of the National Society, a motion was unanimously carried pledging the full support of the New York members for that very popular gentleman.

Mr. J. A. Evans, of the Quaker City

Machine Works, Richmond, Ind., was present and in response to a call made a few pleasant remarks. Another pleasing episode was the offering of expressions of congratulation by Mr. Morris to Treasurer Weathered on the recent happy event in Mr. Weathered's family. There was unanimous approval expressed regarding Mr. Morris' remarks and Mr. Charlie responded in cordial appreciation.

Philadelphia.

Robert Craig has been trying an experiment with crotons in pots. They are in a frame outside, plunged in old hops, and are looking very fine. While they do not grow as rapidly as in the house under glass, the growth made is sturdy and the plants have a more stocky appearance. They were taken from the house to the frame into the direct sunlight and never shaded. Mr. Craig says he thinks they will make fine plants for house decoration. Everything about his place is in apple pie order, several beds of choice varieties of cannas being a mass of bloom. He has erected a large slat house, which is filled with cycas, araucarias, aspidistras and like plants. This makes a useful annex and gives room to spread out the palms in the houses. Mr. Craig thinks this shelter will make a good place in which to winter roses.

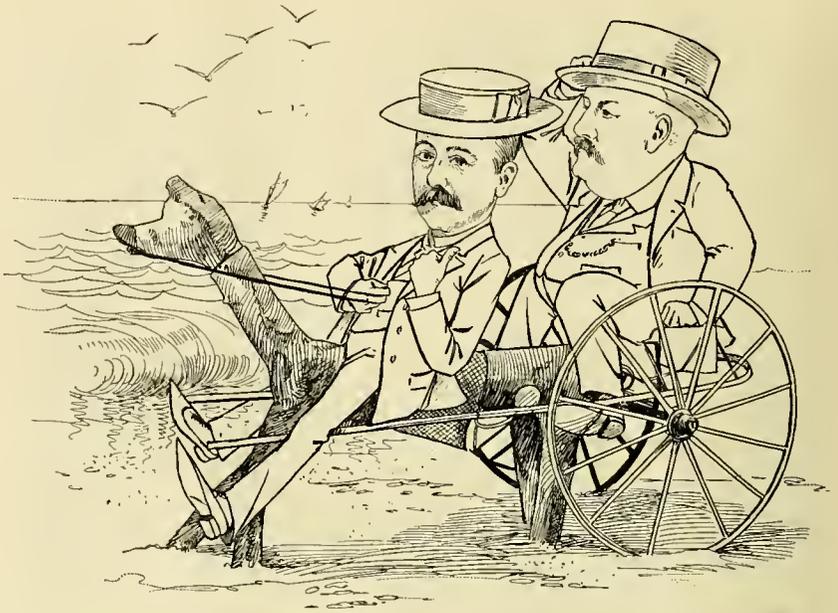
There is not much to say about business at this time, it is of the regulation summer sort, quite a lot to do one day and nothing the next.

Thomas Fould's Brides and Mermets are a revelation; nothing like them has been seen at this season before, fine large buds, long stems and good foliage about describes them except the color of the Mermets, which is equal almost to that usually seen in the winter. They are from two year old plants. It would seem as if the market would take a few more Meteors; they are scarce and any demand worth the name compels the dealer to send to New York. Asters are now fine and sell fairly well; \$1 per hundred is asked for the best. With the exception of short whites, carnations are very poor; \$1 is the outside price.

It is now such a short time to the convention that every one is full of it, and a visitor to Phila. next week will find very few of the craft about, just enough to attend to the watering and see that the places don't get away.

The entertainment committee paid a visit to Atlantic City Saturday last, and on returning announced everything to be in good shape. One of the A. C. papers announced that the S. A. F. would be there August 21st eight thousand strong. We don't know what the Phila. boys have been doing to give any one such an impression as this, probably a reporter has been talking to Superintendent Watson, and he has been telling them about his entries of exhibits. He is in a peck of trouble, having a week ago enough entries to fill every foot of floor, table and wall space, and at the rate they are still coming every mail he will need another just such hall. George is a great manipulator, and he may be able to find room enough and space to please everybody, but he has his hands full. There will be many more exhibits here than at any previous convention, which shows that the trade are alive to the benefits that may be derived from such a representative gathering as attend the conventions of the S. A. F.

An interesting place to visit will be the lighthouse, which is situated right in the



COLONEL DAN TAKES SIR JOHN FOR A SPIN BEHIND HIS "FAST" NAG.

city. It is built of brick with a winding iron staircase inside up to the top, reminding one of the Washington monument on a small scale. Its view from the top is a grand one, and well worth the exertion it takes to get there. The building is open to the public from 9 to 12 a. m.

At the trial shoot captained by John Burton near his place at Chestnut Hill, some great scores were made. Mr. Farson tried for some larger game than blue rocks, and Mr. Battles had quite some trouble with his new fangled iron; it is up to date in every respect, but being new to him, it was a little bit too fast; he will be up with it by the next practice. All had a good time and were well pleased with their trip.

The transportation committee have made arrangements with the Pennsylvania road to take the Phila. Club to Atlantic City on special train. They will leave Monday afternoon at 3 p. m. There is no reduction in the fare, which will be \$1.75 for the round trip ticket good for ten days.

LaRoche and Stahl have made a proposition to their creditors to pay their debt of \$60,435.37 with \$2,152.25, a pro rata of about 3½ per cent. The creditors do not take kindly to this offer, as it is reported that some claims have already been paid in full with stock which was supposed to have been sold for the benefit of all creditors. K.

Chicago.

See page 56 in this issue, under head of "Chicago to Atlantic City," notice of change in transportation arrangements to the convention.

The market showed a slight improvement last week, mostly of a local nature. Shipping demand remains very slow, however, and little trade is done in this direction.

The quality of stock is much improved all along the line. Beauties are coming in once more with fairly long stems; the best selected stock bring \$1.50 a dozen, the bulk of the stock, however, goes at \$1 for fair, and the short of course at less.

Testouts are fairly good, but in warm weather this rose is not the very best keeper. Bridesmaid is in good demand, while Mermet finds few buyers. Kaiserin has the call over the Bride, mainly on account of foliage, as in size of blooms there is little difference between the two. Some real good Duches are coming in which, on account probably of the indifferent quality of La France, is meeting with good demand. The average quality of La France, by the way, hasn't been so poor for years as at present, though a light improvement may be noted. In red roses Meteor of course stands at the head. The quality, however, though fair leaves much to be desired. Perles are fair with small demand.

The rainfall last week was but slight, but small favors are thankfully received. All outdoor stock was much benefited for a time at least, though a day or two of warm weather will take out of the ground the little moisture that has fallen.

Carnations show a marked improvement. The demand also is a little more steady. Asters are coming in with a rush. The stock is fairly good but the demand is not equal to the supply; best quality sells at 50 cents a 100, but the bulk brings much less. In lilies we still note a few scattering longiflorums. There are plenty of auratum, which go slow at 75 cents to \$1 a dozen; roseum and rubrum at 60 cents.

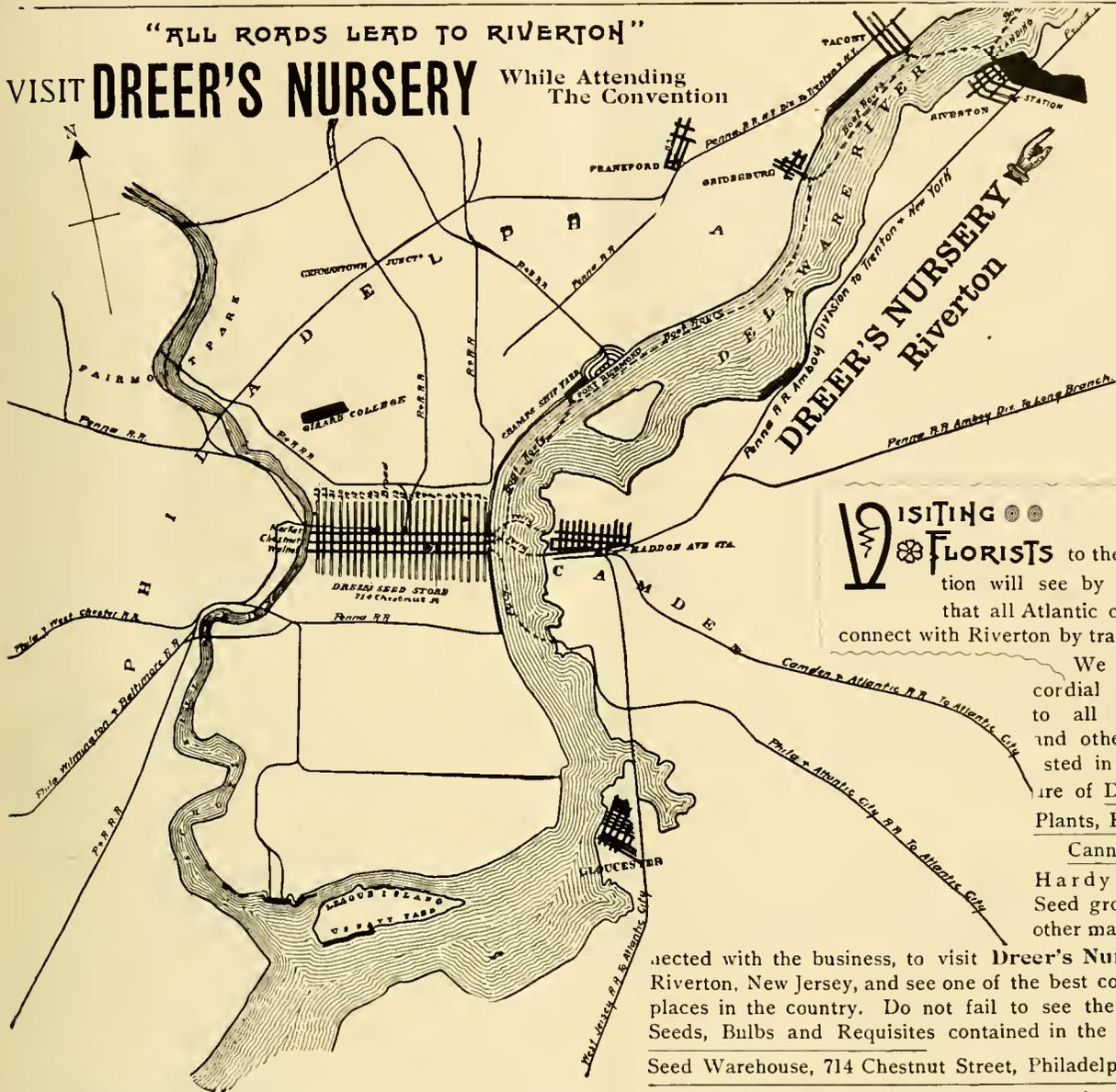
Sweet peas have taken a new lease of life; some really fine flowers are sent in; these are quoted at 15 cents a 100 for the best quality; in large lots, however, they may be had at from 50 cents to \$1 a 1000.

The boys are waking up to the fact that the chrysanthemum show is not so far distant. There is an unusual interest taken this year as regards the Queen of Autumn. Quite a number of growers who have never before attempted to grow this flower by the most approved methods are taking a hand this year, and the coming contest bids fair to become extremely interesting. We have visited quite a number of establishments recently and in the majority of places we find the plants in very fine condition. The amount of

[CONCLUDED ON PAGE 42.]

"ALL ROADS LEAD TO RIVERTON"

VISIT **DREER'S NURSERY** While Attending The Convention



VISITING **F**ORLISTS to the Convention will see by this map that all Atlantic city trains connect with Riverton by train or boat

We extend a cordial invitation to all delegates and others interested in the culture of Decorative Plants, Ferns,

Cannas, Bulbs, Hardy Plants, Seed growing and other matters connected

with the business, to visit **Dreer's Nursery**, at Riverton, New Jersey, and see one of the best commercial places in the country. Do not fail to see the stock of Seeds, Bulbs and Requisites contained in the four-story Seed Warehouse, 714 Chestnut Street, Philadelphia. We

are sure we can interest you in both places and make your call instructive and profitable. So much may be written about a place that leaves a disappointment in the memory of the visitor, after seeing it, that we are anxious to have our friends judge for themselves.

Have your mail or packages sent to our care. Our representatives will be in attendance at our display in Morris Guards Army, Atlantic City, during the Convention, to give all information regarding a visit to our establishments.

Those who prefer may stop over in Riverton or Philadelphia going or coming, as best suits their convenience. For example:—Western and Southern Florists in passing through Philadelphia and arriving before 1.40 p. m. may take a train or boat, visit the Nursery and return in time to take a train after 4.00 o'clock for Atlantic City, arriving in time for supper. Northern and eastern Florists should buy their tickets via Philadelphia, stop over at Riverton on the way down (see New York time table), then take an afternoon train to Atlantic City.

Time tables given herewith.

RIVERTON TIME TABLE

Pennsylvania R. R.—Amboy Div. Philad'a Trains

Lv. Upr Ferry Market Street.	Leave Riverton N. J.
6.10a.m	5.50a.m
7.00	6.44
7.20	7.22
8.20	7.47
10.30	8.17
12.00	8.54
*1.00p.m	9.03
2.30	10.26
3.30	12.02*
4.00	1.31
4.30	2.10
5.00	3.30
5.10	3.49
5.30	5.18
6.00	6.16
6.30	6.51
7.30	8.11
10.00	9.52
11.45	10.54
	12.21

New York Trains

Lv. N.Y. N.Y. Div	Lv. Tren Am. div.	Ar. Riverton N.J.
8.00a.m	9.25a.m	10.26a.m
9.00	11.30	12.12p.m
1.00p.m	1.05p.m	3.49
2.10	2.53	5.18
4.00	4.14	6.16
5.00	5.20	8.11
8.00	7.00	10.54
	9.55	

Excursion tickets N. Y. to Phila., via Broad st. stat'n or Market street ferry, are good to stop off at Riverton, changing trains at Trenton. Local fares to be paid to or from Philad'a.

(*) Sat only.
Distance 9 miles
Time Im. Phil. 30m
" Camden 20m
Fare Excur. 30c

ATLANTIC CITY TIME TABLE

Steamers	Pennsylvania Railroad Camden and Atlantic and New Jersey Division				Philadelphia & Reading Railroad Philadelphia and Atlantic City					
COLUMBIA TWILIGHT AND JNO. A. WARNER	Lv Chestnut st. w/ for River-Philad'a ton	Lv Riverton Philad'a ton	Up'r ly Market Street	Annex Atlantic City	Leave Atlantic City	Arrive Up'r ly Market Street	Leave Walnut Street wharf	Arrive Atlantic City	Leave Atlantic City	Arrive Walnut St. wharf
	7.30a.m	8.00a.m	5.10a.m	6.40a.m	*7.00a.m	8.20a.m	8.00 a.m	9.20a.m	6.20a.m	7.55a.m
*11.45	8.45	9.30	3.15p.m	*10.35	10.30	11.55	10.45	12.10p.m	7.45	8.55
	2.00p.m	11.30	2.00p.m	4.20	3.00p.m	11.55	*1.30p.m	2.50	9.00	10.25
	3.00	3.15p.m	3.00	5.10	*4.00	4.25p.m	2.00	3.15	10.15	11.35
	4.45	5.00	4.00	5.40	5.30	5.25	3.00	4.20	3.80p.m	4.45p.m
	6.00	6.40	4.20	6.20	6.05	7.00	4.00	5.10	4.30	5.50
			5.00	6.55	7.55	8.05	4.30	5.45	5.30	6.75
			5.40		9.40	9.20	5.00	6.23	7.30	8.55
						11.05	5.45	7.00	9.30	10.55

*Saturday only at 12.15
Distance 9 miles
Time 45 minutes
Fare, Excur. 25c
NOTE.—All boats and trains leaving Philadelphia for Atlantic City or Riverton depart from Market, Chestnut or Walnut Street wharves—three minutes walk between each.
*Connect at Camden with Riverton trains

plants grown to single stem is at least double that of last year. We are pleased to note that the old hap-hazard, go-as-you-please way of growing the plants has been discarded by most of our growers, and the result will doubtless prove to be a much better quality of bloom this fall.

At the last meeting of the Florist Club Messrs. J. B. Deamud, A. G. Prince and Walter Kreitling were appointed a committee to formulate a plan for a summer outing of the club. The affair will probably take the form of an excursion to some nearby point, at which features will be a bowling match, shooting match, base ball game, etc. The ladies are to be included and it is the intention to make the affair a reunion of the members of the club and their families.

R. C. Lange is preparing to build two houses, each 18x100, on Humboldt Ave. His address will be Station G, Chicago.

Do YOU WANT a complete alphabetical list of carnations in commerce in America, with name of introducer, date of introduction and brief, accurate description of each? You will find such a list in our trade directory and reference book for 1894. Price \$2.00.

Do YOU WANT a list of trade organizations, both national and local, with names and addresses of principal officers, time and place of meetings and other information? You will find such a list in our trade directory and reference book for 1894. Price \$2.00.

Do YOU WANT a list of the leading cemetery superintendents? You will find such a list in our new trade directory and reference book.

YOU CAN never invest \$2 to better advantage than in a copy of our trade directory and reference book.

ALWAYS mention the AMERICAN FLORIST when writing to advertisers.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant ads. not admitted under this head.

SITUATION WANTED—By practical florist. German, single, age 37; first-class references. Address H P, care American Florist.

SITUATION WANTED—Well up in growing roses—cut flowers and general stock; age 30; good references. K G, care American Florist.

SITUATION WANTED—By a man who has had charge of hot houses, as florist or general greenhouse man; can give first-class reference. Address O P, care American Florist.

SITUATION WANTED—By a young man 17 years old to learn the florist business; has some experience in small greenhouse. JAMES S. FRY, Liltz, Lancaster Co., Pa.

SITUATION WANTED—By a good florist, experienced in growing chrysanthemums, cut flowers and general stock; age 30, married, no children. Address FLORIST, P. O., Bay Ridge, L. I., N. Y.

SITUATION WANTED—By a young man, 18 years, in or around greenhouses, 5 years' experience; good references. Address FLORIST, 103 Blar Ave., Scranton, Pa.

SITUATION WANTED—Commercial or private; age 32, single, American; 8 years' experience; good references. Near Chicago preferred. LOCK BOX 215, Oval City, Stark Co., Ohio.

SITUATION WANTED—By a young German florist, commercial or private; 13 years' experience; sober and industrious. Address H. FLEISCHHAUER, 72nd St. and Stewart Ave., Bay Ridge, N. Y.

SITUATION WANTED—By a young florist; 5 years' experience in commercial place, as assistant; expert potter, propagator, rose grower and mum treader; good references. WOOLTON, care Am. Florist.

SITUATION WANTED—By a practical grower of 12 years' experience. Well posted in all branches. Has had charge of private and commercial place; best of recommendation. Please state particulars. GROWER, care American Florist.

SITUATION WANTED—By a married man, either commercial or private place; 4 years' experience in growing roses, carnations, smilax and bedding plants; can furnish good reference. Address H. W. COLLINS, Doylestown, Pa.

SITUATION WANTED—By thorough experienced and practical glazier and painter in a good firm; has good knowledge of carpentering and packing, and would fill up time in any capacity; state wages. D W, box 46, East Cleveland, Ohio.

SITUATION WANTED—By young man of good habits, age 23, who has been in the greenhouse employment for the past 7 years; good worker, willing and obliging; a No. 1 greenhouse man. Address LA FRANCE, care American Florist.

SITUATION WANTED—By a young florist 25 years of age to take charge of a shipping department; thorough knowledge in executing all kind of mail and express orders; first-class references. Address H R, care American Florist, Chicago.

SITUATION WANTED—By thorough practical gardener and florist. No. 1 rose grower; commercial or gentleman's private place; carnations, violets a specialty; best references. Address H. G., P. O. box 38, Brooklyn Village, Ohio.

SITUATION WANTED—By a young married man, age 32, as grower of roses, carnations, chrysanthemums, palms and ferns, etc.; can assume all responsibility if desired; 5 years in last place. Address GROWER, 286 Adams St., Grand Rapids, Mich.

SITUATION WANTED—As foreman in commercial place, fifteen years' practical experience in the growing of roses, carnations, violets and the forcing of all kinds of bulbous stock; good references. Address MAC, care American Florist.

SITUATION WANTED—By young man, 2 years' experience on private place, also few months on commercial; can furnish references as to honesty, sobriety, etc.; commercial place preferred in Pa. or N. J. G. C. S., 231 N. Penn St., Allentown, Lehigh Co., Pa.

SITUATION WANTED—By a practical florist, fully posted on all the requisites of commercial places, including the nurseries, general propagation, etc.; wishes situation where his executive ability and experience is required. For particulars address FLORAL, care American Florist.

SITUATION WANTED—By a single man, age 26, a good all-round man, to take charge of a commercial place or city store, and if necessary can take charge of books and correspondence; southern states preferred; first class references furnished. Address M. C., care The C. A. Dahl Co., Atlanta, Georgia.

SITUATION WANTED—By gardener and florist, experienced in growing roses, carnations, violets and mushrooms for the trade; also competent to grow general stock and take full charge of private or commercial place; age 32, abstainer, good references. State particulars, with wages, etc. to G. AND E., care American Florist.

SITUATION WANTED—By a Scotchman as gardener and florist; will take entire charge of a gentleman's place; has been superintendent to J. B. Pace, Esq. of Richmond, Va., for the past 5 years; am married, wife and one child, age 33 years; will be obliged to any seedman or florist if he can help me get a good situation. Address W. A. FORT, Supt. to J. B. Pace, Keswick, Albemarle Co., Va.

WANTED—Sept. 1st, practical florist; state experience, wages, etc. NOACK, Batavia, N. Y.

WANTED—A second-hand boiler; must be in fair condition; state kind; must be cheap. Address LOCK BOX F, Lake Geneva, Wis.

WANTED—One No. 16 or 17 Hitchings boiler, second hand; must be in good condition and cheap. C. W. DE PAUW, New Albany, Ind.

WANTED—Catalogues and net prices on flower seeds, plants and berry plants. PAUL & SCHAFER, 560 E. 2nd St., Alton, Ill.

WANTED—A young man experienced in growing roses, carnations and a general stock, also good designer and decorator; must have A No. 1 references and not afraid of work; one with a small capital preferred; one capable of taking entire charge. Chance of a lifetime for right man. Address PALMS, care American Florist.

FOR SALE CHEAP—Large second-hand florist's ice Box, value about \$75. VAUGHAN'S SEED STORE, 88 State Street, Chicago.

FOR SALE—Double "Florida" stem boiler No. 63; good as new; a great bargain. Address A. S. EWING, Chillicothe, Ohio.

FOR SALE OR RENT—Greenhouse, 2000 square ft. glass. For particulars inquire of THEO NOELLE, Green Bay, Wis.

FOR SALE OR RENT—15,000 or 30,000 square ft. of glass. For particulars inquire of A. T. JACKSON, Station X, Chicago.

FOR SALE CHEAP—A first-class florist business in a thriving town of 23,000 inhabitants. For particulars address WISCONSIN, care Am. Florist.

FOR SALE CHEAP—Large, new hnd wood and glass florist's Refrigerator. Used at World's Fair. Cost \$250. VAUGHAN'S SEED STORE, 146 & 148 West Washington St., Chicago.

FOR SALE—No. 5 Scotch boiler, used only 3 winters, all in good condition; reason for selling, having put in 40-horse steam boiler; price on application. J. E. FELTHOUSEN, Schenectady, N. Y.

FOR SALE—In northern Indiana, greenhouse plant of 5,000 feet of glass in greenhouses and sash, 1 1/2 acres land, good general stock of plants, roses, carnations and chrysanthemums; greenhouses and house heated with steam. INDIANA, care Am. Florist.

FOR SALE—Residence and 28 acres of good land, near Lakewood, 1 mile from town of 5,000 inhabitants, within easy access of Philadelphia and New York; well suited for a florist's business; no opposition. Address OWNER, box 103, Tooms River, N. J.

FOR SALE—On account of sickness, greenhouses of 3500 feet of glass, heated by steam; all in good condition. Also dwelling house and ground. Good retail cut flower and bedding plant trade. 600 inhabitants; no other florist; three minutes to railroad station; thirty minutes to Broad street station, Philadelphia; 34 trains daily. Or, will sell greenhouses and give a lease on dwelling house and ground. Only those meaning business need to apply for particulars. Address ROBERT CRAIG, 49th and Market Sts., Phila., Pa.

FOR SALE—A first-class florist establishment that has netted 30 per cent on the price asked for the place, and is still growing, can be made to pay twice that much; on account of poor health was unable to grow a sufficient stock to supply the demand. No opposition. In a wealthy and growing college city with over 6,000 inhabitants, in central Missouri. Greenhouses and everything new, with land 124 by 240 feet near the public square. Price only \$4,800 if sold in the next ninety days. For more particulars write at once to E. H. MICHEL, Magnolia and Tower Grove Aves., St. Louis, Mo.

FOR SALE.

Greenhouse plant 7 miles from center of Chicago in one of its finest suburbs; 3 houses 56x11, one 120x20. Hot water; established all-round retail trade; good winter stock. Long house and ground lease, or will sell entire. A great bargain. Address BOX 10, care American Florist.

FOR SALE OR RENT.

Two large greenhouses 100 feet long by 18 feet wide, containing 5000 feet of glass; built two years ago, with all modern improvements, by the late John F. Nitterhouse, practical florist. Greenhouses situated 1/2 mile from town; convenient to two railroads, and stocked with roses, carnations, etc. Possession given Oct. 1st. For further particulars address MRS. S. J. NITTERHOUSE, Waynesboro, Franklin Co., Pa.

For Sale or Rent.

One of the largest and most successful plants in the State of Ohio, consisting of about 50,000 feet of glass, with three or six acres of fine land; houses all in the best of order, and as good as new; adapted to cut flowers. Reasons for selling, the increasing demand for the Standard Ventilating Machines demands more of my time than I can possibly give it and run the florist business. For particulars address E. HIPPARD, Youngstown, Ohio.

FOR SALE.

Six (6) greenhouses, two hot water boilers, about 2000 feet 2-inch wrought iron pipe, valves, etc., lot of hotbed sash, frames, benches and about 35,000 flower pots. The entire plant will be sold at a very low cash price, as the whole must be removed off the premises before Sept. 1st. For particulars address L. R. MUNN, Station C, Brooklyn, N. Y.

FOR SALE.

A VALUABLE 28-ACRE FARM, WITH GREENHOUSE AND LARGE AND PROFITABLE TRADE ESTABLISHED.

The residence of the late Mr. E. G. Bridge, delightfully situated on Washington St., in the city of Woburn. The buildings consist of a small two-story house of 6 rooms, with shed and storeroom connected; house is painted, blinded and in perfect order, supplied with city water; good barn, with cellar, bennery, ice house, shed and silo buildings.

FIRST-CLASS MODERN STYLE GREENHOUSE.

125x20 feet, built in the most approved style, with large boiler and hot water connections, and the foundations ready for another large house.

The grounds are stocked with 5,000 of the choicest kinds of Pinks. Also Asters, Roses, Shrubs and Hardy Plants (for which there is large orders for future delivery), and the trade can be doubled in one year. The land is beautifully situated, commanding a large street frontage, suitable for building lots, and has fruits of all kinds, shade trees, and Electric Line to pass the property; a large amount of choice white "Pinks" are being sold every day.

OVER \$3600 HAVE BEEN EXPENDED ON THE greenhouses and plants in order to make it the leading place of its class in the county.

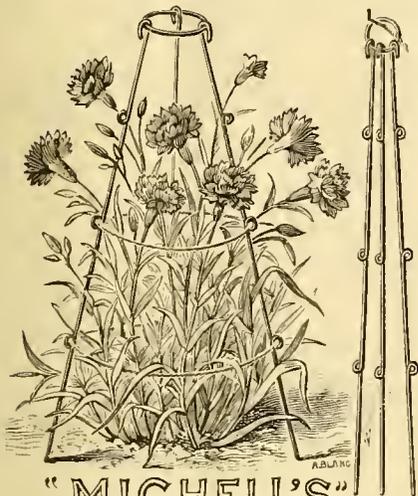
Owing to the sudden death of the late owner, we offer this entire property for \$6,000.

J. L. NASON & CO.,

21 School St., BOSTON, MASS.

FOR SALE.

Wholesale and retail ornamental nursery and greenhouses, in the best residence city of Southern California. Fine business location and complete stock, fixtures, etc. A rare opening for the right man with moderate capital. For particulars address "CALIFORNIA," care Am. Florist.



"MICHELL'S" PRACTICAL CARNATION SUPPORT

Don't fail to LOOK for Michell's PRACTICAL

CARNATION SUPPORTS at the Convention.

23 inches. For short growing sorts.
 \$3.00 per 100. \$23.00 per 1000
 Lots, 2000, 22 00 "
 Lots, 5000, 21.00 "
 26 inches. For medium growing sorts.
 \$3.25 per 100. \$24.50 per 1000
 Lots, 2000, 23.50 "
 Lots, 5000, 22.50 "

HENRY F. MICHELL,

Grower and Importer of Highest Grade

Flower and Vegetable Seeds, BULBS, ETC.,

Henry F. Michell. 1018 MARKET ST., PHILADELPHIA.
 Fred. J. Michell

Surplus Stock

FIELD-GROWN CARNATION PLANTS.

PAUL F. LAU & CO., River Grove, Ill.

25,000

Daybreak AND McGowan

Nice field-grown plants, ready Sept. 1st. Write for prices.

FRED. SCHNEIDER, Wholesale Florist, Wyoming Co., ATTICA, N. Y.

EXTRA PANSY SEED.

MAMMOTH SUNBEAM STRAIN.

A grand collection of giant flowering varieties, very large, of perfect form, and choice colors; carefully selected; better seed plants this year than ever; receive very high praise from my customers; no finer strain offered anywhere; florists should sow of it. Trade pkt., 500 seeds, 25c; 3 pkts. 60c; 6 pkts. \$1.00. A pkt. of the new Monkey Face pansy with every \$1 order. JOHN F. RUPP, Shiremanstown, Pa.

The Dorner Carnations!

You can get the newest and

Most Profitable Varieties

in Field Grown Plants

CARNATIONS

From

THE COTTAGE GARDENS, QUEENS, LONG ISLAND.

Owing to the moist climate and cool damp nights, due to nearness to the seashore, our Carnations are in extra fine condition and will prove profitable purchases.

40,000 GARNATIONS!

FIELD-GROWN

ALL THE BEST VARIETIES.

Standard Sorts, \$5.00 to \$10.00 per 100.

SEND FOR PRICES.

GEO. HANCOCK & SON, GRAND HAVEN, MICH.

"HELEN KELLER"

The new Carnation; pure white, delicately marked with red.

Price for well Rooted Cuttings:
 \$3.00 per dozen; \$12.00 per 100; \$25.00 per 250;
 \$90.00 per 1000. 500 at 1000 rate. Orders may be sent either to

JOHN N. MAY, EDWIN LONSDALE,
 Summit, N. J. Chestnut Hill, Phila.

W. R. Shelmire, AVONDALE, Chester Co., PA. **CARNATIONS AND COLEUS.**

Two New Varieties of Carnations ready for introduction next Spring.

BRIDESMAID,

a pink of same shade as its namesake the rose; and a deep crimson scarlet, No. 41, yet to be named.

FRED. DORNER & SON, Lafayette, Ind.

25,000 FIELD GROWN CARNATIONS

MRS. FISHER, LIZZIE MCGOWAN, TIDAL WAVE, HECTOR, and SILVER SPRAY, GRACE WILDER, MRS. F. MANGOLD, FLORENCE, \$6.00 per 100; \$55.00 per 1000.

P. E. RICHWAGEN, box 56, Montvale, Mass.

CARNATIONS

Rooted Cuttings all sold or planted out. Field plants for sale in the fall.

C. J. PENNOCK, The Pines. KENNETT SQUARE, Chester Co., PA.

TESTED and NEW CARNATIONS.

FERNS.

FISHER & AIRD, ELLIS, NORFOLK CO., MASS.

CARNATIONS

STRONG FIELD-GROWN PLANTS. SEPTEMBER DELIVERY.

DAYBREAK \$7.00 per 100
 SILVER SPRAY 5.00 "
 VIOLETS—MARIE LOUISE 4.00 "

CRABB & HUNTER, Grand Rapids, Mich.

CARNATION "BUTTERCUP"

Strong and healthy plants, pot-grown, in 3-inch pots.

\$8.00 PER 100. \$75.00 PER 1000.

EDWIN LONSDALE, CHESTNUT HILL, PHILADELPHIA.

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

BOWLING RULES WHICH WILL GOVERN THE TOURNAMENT AT ATLANTIC CITY.

1—The game adopted to be played by clubs in this tournament shall be what is known as the American Ten Frame Game.

2—There shall be a line drawn across the alleys fifty feet from the head or front pin.

3—Any wooden ball may be used that does not exceed twenty-seven inches in circumference.

4—The game shall consist of ten frames when, should the number of points be equal, the play shall be continued until a majority of points upon an equal number of frames shall be attained, which shall conclude the game. All strikes and spares made in the tenth frame shall be completed before leaving the alley and on same alley as made.

5—Players must play in regular rotation, and after the first inning no changes can be made, except with the consent of the Captains.

6—Players are to roll but a frame at a time, and to change alleys every frame.

7—The Umpires shall take great care that the regulations respecting the balls, alleys and all rules of the game are strictly observed. They will be the judges of fair and unfair play, and shall determine all disputes and differences which may occur during the game. They shall take special care to declare all foul balls immediately upon their occurrence, unmasked, in a distinct and audible voice.

8—Umpires shall be selected by the Captains of the respective clubs, and they shall perform all the duties in Rule 7, except recording the games, which shall be done by scorers, one of whom shall be appointed by each of the contending clubs.

9—No persons except the Captains shall be permitted to approach or speak with the Umpires, Scorers or players during the progress of the game, unless by special request of the Umpires.

10—A player must not step on or over the line in delivering the ball, nor after it has been delivered, until it leaves the alley. Any ball so delivered shall be deemed "foul," and the pins (if any made on such ball) shall be placed in the same positions as they were before the ball was rolled. It is also considered a foul ball if any part of the person should touch any part of the alley beyond the line before the ball leaves the alley. All foul balls shall count as balls rolled.

11—Should any ball delivered leave the alley before reaching the pins, or any ball rebound from the back cushion, the pins, if any, made on such balls shall not count, but must be placed in same position as they were before the ball was rolled. All such balls to count as balls rolled.

12—Persons to act as Judges shall be chosen, one by each Captain, who shall take their positions at the head of the alleys and see that the pins are properly set up, and that no one interferes with them in any way until the player is through rolling. They will immediately report to the Captains any irregularities that they may notice during the progress of the game.

13—The dead wood must be removed from the alley after each ball. Should a pin be displaced from the perpendicular and in such position that it falls on the removal of the dead wood it is to be counted as down.

14—Sufficient space shall be allotted to the participants in the game, to which none but members of the teams shall be admitted.

ST. JOHNSBURY, VT.—A greenhouse 100 x40 feet is being erected here for Mr. T. N. Vail.

NEWBURYPORT, MASS.—J. J. Comley announces that he will give a large chrysanthemum show in this city the coming fall.

BAR HARBOR, ME.—F. H. Moses has taken the large store adjoining that occupied by him and is having the two thrown into one which will be the finest establishment east of Boston when completed.

WHENEVER you want anything pertaining to the trade, and do not find it offered in our advertising columns, write to us and we will take pleasure in assisting you to find what you want.

DO YOU WANT detailed information about the organization and workings of the various national trade organizations? You will find what you want in our trade directory and reference book for 1894. Price \$2.00.

DO YOU WANT a list of firms in the trade that issue catalogues, with key showing proportion of space given each branch of the trade in same? You will find such a list in our trade directory and reference book for 1894. Price \$2.00.

—* ESTABLISHED 1881. *

FRANK D. HUNTER,

57 West 30th Street,

NEW YORK.

HEADQUARTERS FOR



ROSES

CARNATIONS

AND VIOLETS

If you have the

RIGHT KIND OF GOODS

. . . you can sell them

You can get the right kind of goods at the **RIGHT PRICE** here.

Try it at once and you will surely come again.

FRESH CUT FLOWERS DAILY FROM THE BEST GROWERS.

M. A. HART,

113 W. 30th STREET, NEW YORK CITY.

Shipping Trade Solicited.

UNITED STATES HOTEL,

ATLANTIC CITY, N. J.,

will be the Headquarters of

KOFFMAN, "The Smilax King,"

During **Convention week**, where he will be glad to meet his friends to make arrangements for their supply of **Smilax** the coming season.

SMILAX PLANTS.

15,000 strong, healthy plants, from 2 1/4-inch pots, \$2.00 per 100; \$18.00 per 1000. Sample free. Safe delivery and satisfaction guaranteed.

Samuel J. Bunling, Elmwood Ave. & 58th St., Phila.

You will benefit the American Florist by mentioning it every time you write an advertiser in these columns.

SUPREME COURT

—OF—

FLORICULTURE.

Filed this 20th day of August, A. D. 1894, at 49 West 28th Street, city, county, and State of New York.

SUBPOENA.

COUNTY OF NEW YORK SS:

State of New York.

You and each of you are hereby commanded to appear in person before

✻ BURNS ✻ & ✻ RAYNOR ✻

at 49 WEST 28th STREET, in said city, county, and State of New York, on or after the 20th day of August, A. D. 1894, between the hours of 8 a. m. and 6 p. m., to testify to the truth of their claim to be the

Leading Wholesale Florists

of the United States, quantity and quality considered, and there and then to place your orders for future shipments, or arrange for consignments to the parties aforesaid, and this you are in no wise to omit under no less a penalty than that of losing the personal attentions of the best firm in the trade to supply your future wants.

Given under our hand and seal this Twentieth day of August, A. D. 1894.



Burns & Raynor.

**Boys going to and from the Convention
made welcome.**

Boston.

To write news from Boston at present one must first manufacture it. There is nothing transpiring in the flower trade either interesting or edifying. There is an abundant stock of everything floral coming in, a specialty just now being white Japan lilies, which are abundant and sell well for funeral purposes, etc.

The special meeting of the Gardeners' and Florists' Club on Thursday resulted in wise action and Boston will be represented by a creditable bowling team and it is hoped a shooting team as well at the Atlantic City convention.

The prospects are for a large and a merry delegation to the convention. Dirwanger from Portland who if not of the Boston crowd is yet always with them is going. Warren Ewell has ordered a special set of harmonicas in all keys and Elijah Wood has been learning several new songs. The ladies will be out in goodly numbers and altogether a delightful trip is anticipated.

The new city greenhouses which are now in process of construction will cover when completed an area of 16,760 feet of ground in addition to cold houses, propagating house, etc.

Haverstraw, N. Y.—W. H. Hillerman, formerly of Salisbury, Md., has purchased the establishment of Chas. H. Zundel here and will continue the business.

Davenport, Ia.—The new houses built this summer by F. L. Bills were one 11x100 for chrysanthemums, one 10x100 for carnations, one 11x100 for palms, and one 7x100 for violets. He has also rebuilt one house 18x60 and has put in city water, having had to carry it six blocks from the nearest connection with the mains. He now has a total of 20,000 feet of glass all in good shape. The weather has been very dry here and everything outside is burned nearly to a crisp.

≡ MILLANG BROS. ≡

Can be found at the 34th Street Flower Market, New York, every day from 5 o'clock a. m.

Do not miss the opportunity to visit this great institution. We can show you

≡ ROSES ≡

Unexcelled in quality by any coming to the New York market.

For supplying out-of-town customers our facilities and conveniences are the very best.

MILLANG BROS.,

Cut Flower Exchange,

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117 W. 30TH STREET, NEW YORK CITY,

Still at the Old Stand, and prepared to fill orders for shipment in any quantity.

Careful Attention to Selection and Packing.

**An Exhibition Worth Seeing!
ROSES BY THE THOUSAND!!**

All the Popular Varieties. Every morning from 9 to 11 o'clock.

It will pay you well to call and see for yourself the quantities of roses handled daily in a busy New York Commission House. You will find us ready to greet old customers and glad to welcome the new.

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PANDANUS UTILIS

6-inch pots.....\$5.00 per dozen
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100,000 PANSIES BROWN'S SUPERB PANSIES

READY NOW FOR PLANTING.

Grower of all the leading variety, the ne plus ultra in pansies. For size and form it seems hardly possible to produce anything more perfect and superfine (most light colors).

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As you pass through New York on your way
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American Beauties

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Are coming in now from the best growers. We
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Advertisements must reach us by Monday to secure
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Address THE AMERICAN FLORIST CO., Chicago.

THE CONVENTION.

The tenth annual meeting of the Society of American Florists promises to be the largest and most valuable ever held by the society, in spite of the hard times. This indicates that the trade has confidence in the future and that the value of our national organization is fully appreciated. There will be important questions to be passed upon at Atlantic City, but that they will be treated wisely and well none can doubt.

And there will be recreation as well as work. The florists of the "City of Brotherly Love" will be our hosts, and none know better than they how to care for their guests.

While some hold that so much time devoted to recreation detracts from the dignity of the society we are inclined to believe that this added feature has been an important factor in bringing out the large annual attendance which has done so much toward strengthening the society and given added importance to the labors of those who felt that work should be the only consideration. Certain it is that the society has accomplished more practical work than any similar organization that has eschewed the entertainment feature.

It is true there remains much to be done. There are live questions yet to be dealt with, and at this, our tenth meeting, several will receive the consideration to which they are entitled.

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WHOLESALE CUT FLOWERS,**

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SHIPPING ORDERS CAREFULLY ATTENDED TO.
OTHER SPECIALTIES:Florists' Supplies, Wire Designs, Bulbs,
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15 cents per String.

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FLORAL DESIGNSThe Cut Flower Worker's Friend. Fine book
of 160 pages. Send \$3.50 for it, to
J. HORACE McFARLAND, Harrisburg, Pa.**Cycas Leaves. FRESH CUT**
each 75c.VAUGHAN'S SEED STORE, P. O. Box
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Antwerp World's Exhibition, 1894.

Ghent International Flower Show, 1893.

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RHODODENDRONS, CAMELLIAS, ROSES,
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The Florist is Nothing if not Progressive.

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Roses	per 1000.....\$5.00@10.00
" Beauty2.00@12.00
Carnations	per 1000.....\$3.00@5.00
Valley2.00@ 4.00
Harrish	.....4.00@ 6.00
Auratum	.....1.50@ 2.00
Sweet peas, per 100 bunches	.....50c@1.00
Asters per 100 bunches	.....50@1.00
Smilax	.....4.00@ 8.00
Asparagus	.....25.00@35.00
Adiantum	......75@ 1.00

BOSTON, Aug. 11.	
Roses, Niphotos, Gontier	.....1.00@ 3.00
" Perle, Sunset	.....1.00@ 3.00
" Bride, Mermet	.....2.00@ 6.00
Carnations	......25@ .75
Harrish	.....6.00@ 8.00
Lily of the valley	.....4.00
Sweet peas	......25@ .50
Asters	.....1.00@ 3.00
Gladolus	.....2.00
White Japan lillies	.....1.00
Adiantum	.....12.00@15.00
Smilax	.....50.00
Asparagus	.....2.00

PHILADELPHIA, Aug. 11.	
Roses, small	.....2.00
" large	.....3.00@ 4.00
" Beauties	.....8.00@15.00
Carnations	......50@ 1.50
Valley	.....4.00
Smilax	.....10.00@12.00
Asparagus	.....50.00
Harrish lillies	.....4.00@ 6.00
Sweet peas	......25@ .50
Cornflower	......25@ .50
Cattleyas	.....35.00@40.00
Adiantum	......75@ 1.00

CHICAGO, Aug. 14.	
Roses, La France, Meteor	.....3.00@ 4.00
" Beauty	.....8.00@15.00
" Kaiserin	.....3.00@ 4.00
" General assortment, per 1000	.....\$5@10
Carnations, long	......25@ .60
" fancies	.....1.50@ 2.00
Auratum lillies	.....6.00@ 8.00
Asters	......50
Sweet Peas	......10@ .30

ST. LOUIS, Aug. 13.	
Roses, Perles, Niphotos, Wootton	.....2.00@ 3.00
" Bride, Mermet, Bridesmaids	.....2.00@ 3.00
" Meteors	.....2.00@ 3.00
" La France, Albany, Hoste	.....2.00@ 3.00
" Beauty	.....5.00@15.00
Sweet peas	......15@ .25
Carnations, long	......50@ .75
" short	......50
Adiantum	.....1.25
Hollyhocks, astera	......50

BUFFALO, Aug. 13.	
Roses, Beauties	.....12.00@15.00
" Mermet, Bride	.....3.00@ 4.00
" Gontier, Perle	.....3.00
" Cusin	.....3.00
Auratum lillies	.....10.00@12.00
Lanchifolium lillies	.....8.00@10.00
Carnations75@ 1.00
Gladolus4.00@ 5.00
Sweet peas20
Valley3.00
Smilax15.00@20.00

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 A complete line of Wire Designs.

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American Beauty,

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 And all other desirable roses, grown especially for summer shipping to seaside and mountain resorts.

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 In dull season and busy season.
 All the year round.

Roses, Lily of the Valley
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Roses Shipped to all points. Price list on application.
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INDICATIONS point to a scarcity of white Roman hyacinths.

MR. CHAS. P. BRASLAN and wife sailed for Europe August 11.

L. L. MAY & Co., at St. Paul, are adding 7,000 feet of new glass.

RECENT RAINS will undoubtedly be of much benefit to vine crops, late potatoes and late corn.

Miss C. H. LIPPINCOTT is adding a two-story brick and stone store front to her Sixth street quarters.

THE PASSAGE of the Senate tariff bill places a duty of 10% on lily of the valley, palms, orchids and like forcing stock and apparently the same duty on all flower bulbs, whereas all of the above have been free goods under the McKinley bill. The question now is when will the new bill take effect.

WATERLOO reports of August 7th are more discouraging than ever in regard to the corn crops. Vines are also suffering and very little fruit is set on them yet. There will not be much of a crop unless there is a change soon. The like has never been known for 35 years past, abundance of rain being more customary than a drouth.

DO YOU WANT a list of the cemeteries of the country that use trees, shrubs and plants largely in the ornamentation of their grounds and that are apt to be large buyers of these and other horticultural supplies? You will find such a list in our trade directory and reference book for 1894. Price \$2.00.

DO YOU WANT a complete alphabetical list of chrysanthemums in commerce in America, with class, and brief, accurate description of each? You will find such a list in our trade directory and reference book for 1894. Price \$2.00.

Watch this Space!

We will quote SOMETHING GOOD in the near future.

We sell only to the trade at Wholesale Prices.

Better not let your customers read your Florists' Trade Papers.

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WE SELL BULBS

Special low prices to

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WEEBER & DON,
Seed Merchants and Growers.

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ROSES at \$2.50 per 100.

250 BRIDES, fine, 2 1/2-inch pots, 1000 MERMETS, 2 1/2-inch pots. This is fine young, healthy stock, 6 to 10 inches high, and very strong. Cash with order.

J. J. LAMPERT, Xenia, Ohio.

August Rölker & Sons,
136 & 138 West 24th St. New York City.

Rolker's CHOICEST Strains of FLOWER SEEDS.

CALCEOLARIA <i>hyb. grandiflora</i> , choicest English mixed	@ \$.50	per trade pkt
CINERARIA select Covent Garden, mixed	@ .50	" "
CYCLAMEN <i>Dame Blanche</i> , pure white, very large flowering	@ .75	per 50 seeds
" <i>Excelsior</i> , delicate bluish	@ .75	" "
" <i>Crimson King</i> , brilliant intense crimson	@ .75	" "
" <i>Splendens grandiflora</i> , pure white, very choice	@ 1.00	for 100 seeds
" " " white with dark eye, very choice	@ .60	" "
" " " rose	@ .60	" "
" " " dark red	@ .60	" "
PANSY , Rolker's Superior Mixture	@ \$5.00 per oz.; \$1.50 per 1/4 oz.; \$1.00 per 1/8 oz.	
" <i>Trimardeau</i> , Improved Giant	@ 5.00	1.50
" <i>Bugnot's</i>	@ 10.00	2.50
" <i>Cassier's</i>	@ 6.00	1.50

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Gape Flowers, WHEAT SHEAVES, Metal Fern Dishes.

HEADQUARTERS for all varieties of FALL or EARLY SPRING BULBS.

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JUST RECEIVED IN SUPERIOR QUALITY:

Lilium Harrisii - 5-7 inches;	\$2.50 per 100;	\$20.00 per 1000
7-9 "	5.00 "	45.00 "
Roman Hyacinths 13-15 1/2 cm.	2.75 "	25.00 "
Paper White Grandiflora -	1.25 "	10.00 "
French-grown Freesias, large bulbs,	0.90 "	6.00 "
English Milltrack Mushroom Spawn -	per lb. 10c;	per 100 lbs. \$8.00

FOR FALL DELIVERY: Dutch Hyacinths, Tulips, Narcissus, Crocus, Lily of the Valley, Roses, Azaleas, Japanese Lilium longiflorum, auratum, rubrum, præcox, album, etc.

CHAS. SCHWAKE, 404 E. 34th Street, NEW YORK.

Prices Lower Than Ever.

Ready for shipment from July to September.

- Calla Aethiopia*, fine dry roots in all sizes.
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- Lil. Auratum*, Spec. Rubrum and Album. Etc.
- Iris Kæmpferi*, in 100 choice varieties.
- Japanese Maples, in best varieties.
- Camellias, Pæonies, Tree Ferns, Raphis, Cycas Revoluta, superb growing plants with fine foliage from 25 cents to \$5 each; fresh imported stems, true long leaf variety, roots and leaves cut off, delivered from March, 1895.

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F. Gonzalez & Co.,

303 to 312 Wayne St., SAN FRANCISCO, CAL.
Mention American Florist.

Cyperus Alternifolius.

3 1/2-inch pots, per doz.	75c;	per 100	\$6
2 1/2-inch pots, " "	60c;	" "	\$4
2-inch pots, " "	40c;	" "	\$3

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Smilax Plants Cheap.

Out of 2 and 3-inch pots, also transplanted plants out of boxes. Never had as fine and large stock before. Please state number you desire and I will give you the lowest prices. Safe delivery and best satisfaction guaranteed with every shipment. Sample order 10 cts. Terms strictly cash.

Address **FRED SCHNEIDER**, Wholesale Florist, Wyoming Co., ATTICA, N. Y.



A Trial will convince you

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Is what is wanted for

ROSES, CHRYSANTHEMUMS, SMILAX, Etc.

Sample sent free on application by writing to

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THE FINEST QUALITY.
THE MOST POPULAR PRICES.
THE MOST LIBERAL TERMS.

We Want YOUR Trade.

CATALOGUE FREE TO ALL ON APPLICATION.

SEND LIST OF YOUR WANTS FOR SPECIAL PRICES.

NOW READY.		Per 100.	Per 1000.	NOW READY.		Per 100.	Per 1000.
LILIUM HARRISII, 5 to 7.....		\$ 2.50	\$20 00	WHITE ROMAN HYACINTHS, 11 x 12.....	\$1.50	\$11.00	
" " 7 to 9.....		5.00	45.00	" " " 12 x 15.....	2.25	20.00	
" " 8 to 9.....		6.00	50.00	PAPER WHITE NARCISSUS.....	1.00	6.50	
" " 9 to 11.....		10.00	90.00	" " " Grandiflora.....	1.25	9.00	
LILIUM CANDIDUM, Selected.....		2.50	22.00	FREESIA REFRACTA ALBA, Extra selected..	.75	6.00	
WHITE CALLA (Dry Bulbs).....		6.00	50.00	LILY OF VALLEY (our extra Berlin Pips now			
" " Extra selected.....		8.00	75.00	in cold storage and for immediate delivery).	1.50	12.00	

Finest stock of DUTCH HYACINTHS, TULIPS, VON SION NARCISSUS, SPIRAEA, etc., ready in September.

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Buy FIRST HAND. We will deliver Freesia Bulbs, all charges for transportation paid, as follows:

3-8 to 3-4 inch per 1000, \$4.00
 1-4 to 5-8 inch per 1000, \$3.00

Liberal discount on larger lots. Send for our price list.

Order NOW your Japan Bulbs, Longitlorum, Auratum, Rubrum, Album, we are Headquarters. We are the ONLY FIRM in the U. S. who guarantee you SOUND BULBS delivered.

Address all communications to

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FOR SALE. Now ready for delivery.

BERMUDA SPICE LILY } 7 to 9 in. bulbs, \$20 per
 Imp. Amaryllis Johnsonii, } 100; \$170 per 1000.

FREESIA REFR. ALBA, 5-16 in. in diam., \$2.50 per
 1000 in lots of 5000.
 " " " " Seed, \$2.00 per lb.

GLADIOLUS SHAKESPEARE, 2 1/2 to 3 inches in diam.
 \$6.00 per 100; \$50.00 per 1000.

ZEPHYRANTHES ROSA. } large bulbs, \$2 per
 " FLORIBUNDA } 100; \$15 per 1000.

" ATAMASCO, \$1 per 100; \$8 per 1000

NERINE SARNIENSIS } large flowering bulbs, \$8
 Guernsey Lily, } per 100.

CALLA BULBS, 4 to 6 inches at crown, \$7 per 100.
 Best var. FRENCH CANNAS, \$6 per 100; \$40 per 1000.

Above prices are for delivery in New York, thence by Express or otherwise at purchaser's cost. C. O. D. from unknown parties.

R. H. JAMES,

Columbia Farm, ST. GEORGES, BERMUDA.
 Menton American Florist.

GLARK BROTHERS,

Manufacturers and Printers of

PAPER SEED BAGS

of every description, except Lithographic Bags.

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Ram's Head Brand Fertilizer	- - -	per bag	\$3.00
Clay's Fertilizer	- - -	per bag, 112 lbs.,	\$6.25
Mushroom Spawn	- - -	per 100 lbs.	\$8.00
Raffia	- - -	15c. per lb.; per 100 lbs.	\$12.00
Lilium Harisii	- 5 to 7	per 100	\$2.50; per 1000 \$22.00
	7 " 9		5.00; 45.00
Hyacinths, E Roman White	per 100	\$2.00; per 1000	\$16.00
Lilium Candidum Select Bulbs	"	\$2.00; "	\$18.00

WRITE FOR TRADE PRICE LIST.

WM. ELLIOTT & SONS,

54 and 56 Dey Street, NEW YORK.

Hulsebosch Brothers,
 OVERVEEN, near Haarlem, HOLLAND.
Bulbs AND Plants

We are now prepared to quote lowest possible prices for next July, August and September delivery.

Illustrated Wholesale Catalogues on application.

HULSEBOSCH BROS.,
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Menton American Florist.

ONION SEED.



CROP 1894.

Prices for New Crop made on Application.

COX SEED AND PLANT CO.

411, 413 & 415 Sansome Street,

SAN FRANCISCO, CAL.

Menton American Florist.

Buffalo.

Two weeks of high class horse trotting has just closed, a game of ball (Rochester vs. Buffalo) is coming off on Thursday next, and then for Atlantic City with all its glorious opportunities for recreation both mentally, physically and "sportingly." With all this in the immediate past, present and future, there are only a very few of us old fellows who are giving much thought to serious business. There is really not much to attend to in the selling way, but plenty for the greenhouse man to busy himself with. Very fair roses are now coming in from nearby towns. Carnations are very near their end. The dry weather is telling on sweet peas, and good ones are scarce. Asters are now filling a gap. Altogether there are sufficient flowers to meet all demands.

It has been quite cool of late, too cool to make one feel jolly, but so many events of a sportial nature have enabled most of us to keep up our normal temperature. We hope to see a good strong delegation leave here for Atlantic City and think there will be more than have attended any other, still there won't be as many as should be. J. H. Rebstock prefers the Adirondack Mountains for a week; serve him right if he got lost in the primeval forest. But I am not attempting to explain why Tom, Dick and Harry won't attend. Most of them are willing that a few should spend their time and money in the elevation of the business and they can later on reap the benefit. Prof. Cowell leaves this week for Brooklyn to attend the convention of the Am. Asso'n for Advancement of Science, of which he is a prominent member. He will then advance himself on to the Quaker City Sunday or Monday. There are several here who are rejoiced to see that a shooting tournament at artificial birds is on the program. We hope it will be in the hands of some one who thoroughly understands trap shooting. Two guns will go from here, so some must think they can shoot.

I was a little premature in saying two weeks ago that our boys would go by the D. & L. road. We shall without doubt go by the Lehigh Valley. It is much the shortest route and no change of cars to Philadelphia. I wish I could announce now the hour, but no doubt the train which will carry the most will be that that leaves here on Monday 9:15 a. m. arriving in Philadelphia about 8 in the evening. That will give those fortunate

enough to be there an opportunity for a good night's repose, more or less, and a chance to join the large delegation in the morning. To those who suffer with insomnia in strange hotels I would recommend that they retire early, screw down the gas low (but not quite extinguished) and read and re-read the latest effusion of the Bard of Kingsessing, "come to the convention." I tried it last night and on getting to the word lassies for the 7th time I was sound asleep.

W. S.

Grow Swainsona.

The best and most profitable pure white flower grown. Takes the place of Roman hyacinths or lily of the valley, producing spikes of flowers from 4 to 6 inches long, in the greatest abundance the entire year—never out of bloom—lasting well when cut. 100 Swainsona will pay you three times as much as same space in best carnations. No florist should be without this most useful flower. After a trial it will be considered indispensable.

EASY TO GROW.

An exceptionally good and paying cut flower.

Strong young plants, \$1.00 per doz.;
\$6.00 per 100.

Larger ones, \$1.50 per doz.; \$10 per 100.

FAUST & BRO.,

MERION STATION, P. R. R., PA.

Mention American Florist.

Our Specialties

ROSES, \$20 to \$40 per 1000, prepared for winter blooming.

VIOLETS, single and double, \$30 per 1000.

CHRYSANTHEMUMS, 50 prize winners, \$30 per 1000.

BOUVARDIAS, leading sorts, \$40 per 1000.

GERANIUMS, single and double, best varieties in existence, per 100 \$4.00.

GRAND NEW VARIEGATED Abutilon,

"ANDENKEN AN BONN," extra, \$4 per 100.

AMERICAN PERFECTION ROSE, 25 for \$1.

Try it and you will find that this Rose produces more flowers than any Rose in existence. Strong grower.

Everything in stock and in quantities, and extra cheap this month.

Wholesale Catalogue free to a 1.

Address **NANZ & NEUNER,**
LOUISVILLE, KY.

THE AMERICAN FLORIST CO.'S DIRECTORY REFERENCE BOOK

FOR 1894

CONTAINS THE FOLLOWING:

1. The names and addresses of the Florists, Nurserymen and Seedsmen of the United States and Canada, the exact branch of the business each is engaged in being indicated.
2. A separate list of firms that issue catalogues, the space devoted to each branch of the business in each catalogue being also given.
3. A list of the names and addresses of superintendents of leading parks in the U. S. and Canada.
4. A list of the principal cemeteries of America at which the arts of the landscape gardener and florist are used in beautifying the grounds.
5. A complete, alphabetically arranged list of Roses in commerce in America, with class, habit of growth, date of introduction, name of introducer, and brief, accurate descriptions of the flower of each. Synonyms are also plainly given.
6. A complete, alphabetically arranged list of Chrysanthemums in commerce in America, with class, and brief, accurate description of each. Synonyms are noted and varieties that are very popular with American growers are designated by a star, and this year's introductions by a dagger.
7. A complete, alphabetically arranged list of the Carnations in commerce in America, with name of introducer, date of introduction and brief, accurate description of each.
8. Seasonable Hints for the year, arranged in weeks, written by Mr. William Scott, and covering every detail of a general florist business. This is decidedly the most valuable contribution to the literature of the trade ever published. It is written in a plain, practical way, by a man who knows what he is talking about.
9. A historical sketch of the Society of American Florists from its organization to date, including officers for each year and lists of essays read at each meeting, with other information of interest.
10. A similar historical sketch of the American Association of Nurserymen.
11. A similar historical sketch of the American Carnation Society.
12. A similar historical sketch of the American Seed Trade Association.
13. Similar historical sketches of the Florists' Hall Association of America; of the National Chrysanthemum Society of America; of the Florists' Telegraph Delivery Association.
14. A complete list of all National and Local Trade Organizations, with names and addresses of principal officers, time and place of meetings, etc.
15. Statistics of Commercial Floriculture in the U. S. from the last census.
16. Statistics of the Nursery Industry in the U. S. from the last census.
17. Statistics of Seed Growing in the U. S. from the last census.
18. A list of Leading Horticultural Societies, with name and address of the Secretary of each.
19. Full information about Express and Postage rates on plants, shrubs, trees, seeds and bulbs

No less than 270 pages of valuable reference matter in compact form, and all UP TO DATE.

PRICE \$2.00 POSTPAID.

AMERICAN FLORIST CO.,

P. O. Drawer 164. CHICAGO.

Marie Louise Violets.

Strong crowns, pot grown, free from disease. If you want good flowers get pot grown plants.
\$4.00 per 100; \$30.00 per 1000.

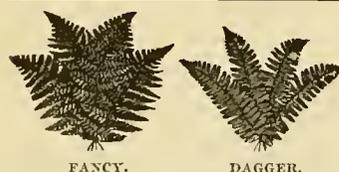
GEO. H. BENEDICT, Yorkville, N. Y.

NEPHROLEPIS EXALTATA.

Fine plants, in 2, 3 and 4-inch pots. Prices as low as the lowest.

BURR OAKS NURSERY, SIBLEY, ILL.

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EVERGREEN CUT FERNS

ESPECIALLY FOR FLORISTS' USE.

\$1.25 per Thousand Ferns.

IN LOTS OF 5,000 AND UPWARDS, \$1.00 PER 1000. Ferns furnished the year round. Special attention given to supplying the Wholesale Trade.
BOUQUET GREEN For Holiday Trade, \$2.00 per barrel (thirty pounds); or \$6.00 per hundred pounds. Special reduction in express rates.
SPHAGNUM MOSS a specialty. Long, clean fibre, dry or green, \$1 per barrel, or six bbls. for \$5. Write for terms on large lots. Terms cash, or goods will be sent C. O. D.
CHRISTMAS TREES. American White Spruce, much better shape and color than the Blue Spruce, also Balsam Fir from 3 to 30 feet high. Special attention to supplying carload lots. Write for price list and terms.



L. B. BRAGUE, Hinsdale, Mass.

City Stand During the Holidays: 47th St. and Lexington Ave., NEW YORK.

MR. BRAGUE WILL BE AT THE CONVENTION EXHIBIT HALL.

Far better and prettier than *IVY LEAVES*, and three times as cheap, is what all florists say who use

Kelsey's New Southern Galax Leaves.

SAMPLES, GREEN AND BRONZE, FREE BY MAIL.

HARLAN P. KELSEY, Highlands Nursery, KAWANA, North Carolina.

GARDINER'S SELECTED BULBS



	Per 100	Per 1000
Lilium Harrisii, 5 to 7 inches.....	\$ 2.50	\$22 00
“ “ 7 to 9 “	4.50	42.00
“ “ 9 to 11 “	10.00	90.00
Lilium longiflorum, 5 to 7 inches.....	3.00	25.00
“ “ 7 to 9 “	5.50	50.00
“ “ 9 to 11 “	11.00	100.00
Early White Roman Hyacinths, 11 to 12 cent.....	1.50	11.00
“ “ “ 12 to 15 “	2.00	18.00
Narcissus Von Sion, extra selected.....	2.00	18.00
“ Paper White.....	1.00	8 00
“ “ Grandiflora.....	1.25	10.00
“ Trumpet Major.....	1.75	15.00
“ Double Roman.....	1.00	7.50
“ Chinese Sacred.....	5.25	47.50
Calla Lily, large bulbs.....	7.50	70.00
“ “ extra large bulbs.....	9.00	85.00
Freesia Refracta alba, selected.....	.50	4.00
“ “ “ extra large.....	.75	6.00
Jonquils Campernelle.....	.80	6.50
Lily of the Valley, selected, 3 year old Berlin Pips.....	1.00	8.50
(Special prices for larger quantities.)		
Spiraea Japonica.....	3.50	32.50

Send for Wholesale Price List of BULBS, SEEDS, Etc.

New Crop Calceolaria, Cineraria, Cyclamen, Pansy and Primula Seeds, finest strains.

JOHN GARDINER & CO.,

IMPORTERS AND WHOLESALE DEALERS

Seeds, Bulbs and Mushroom Spawn,

631 Market Street,

PHILADELPHIA, PA.

Mention American Florist.



Wisconsin Flower Exchange
BULBS.

NOW READY:

**NARCISSUS,
HARRISII,
ROMANS,
FREESIAS.**

OUR NEW PLANT TUB is on exhibition at the S. A. F. Convention. Don't fail to see it.

WE MAKE WIRE WORK. Discount: 25 per cent. off our list.

Cut Flowers. Florists' Supplies.

Send for Catalogues and Price Lists.

WISCONSIN FLOWER EXCHANGE,

Box 87.

MILWAUKEE, WIS.

Tobacco Dust.

Per barrel (about 125 lbs.), \$2.50.
Sample free by mail.

HERRMANN'S SEED STORE,
413 East 34th Street,
near Long Island Ferry, NEW YORK.
Mention American Florist.

Grevillea Robusta.

3-inch pots, 10 to 15 inches high, per dozen \$1.00; per 100 \$8.00
2½-inch pots, “ 65c; “ \$4.00

NATHAN SMITH & SON,

ADRIAN, MICH.

Mention American Florist.



TRY DREER'S

GARDEN SEEDS,

Plants, Bulbs & Requisites.
They are the best at the lowest prices. Trade List issued quarterly, mailed free to the trade only.

HENRY A. DREER,
Philadelphia, Pa.

Tarrytown and Scarborough, N. Y.

When Tarrytown is mentioned one involuntarily thinks of Pierson; to one interested in floriculture the two are inseparable. This again recalls cannas, especially to anyone who had the good fortune to see the magnificent canna display at the World's Fair last summer.

F. R. Pierson's place is not difficult to find. At this season of the year you can see it from afar, the beds of cannas looming up in brilliant scarlet and gold, in the presence of whose glory the surrounding masses of shrubbery and herbaceous plants shrink almost into insignificance. What an object lesson these gorgeous clumps of Alphonse Bouvier, Charles Henderson, Florence Vaughan and Count Horace de Choiseul furnish to the people of Tarrytown. It will be strange indeed if every garden of any pretensions in the town does not boast a canna bed next year after such a practical demonstration of the possibilities of these plants.

One of the showiest groups is that of a new variety, Sunshine, a seedling of Mr. Pierson's, whose effectiveness fully justifies its name. It makes an excellent bedder. The color is the glowing orange vermillion of Paul Marquant, but the flower is much larger and fuller. Two other seedlings inside the house attract much attention. One, Helen Gould, is a combination of strong orange and yellow shading, which gives a wonderfully luminous effect; the other, Golden Heart, is a deep, even scarlet, with no edging or marking, but a clear orange center, the flower being very full and possibly more nearly approaching the ideal form than anything yet introduced. Lemoine's new yellow, Eldorado, is another variety that shows up particularly well.

The five mile drive from Tarrytown to Scarborough, where the Pierson rose houses are located, is through a charming country, the road running between magnificent private estates and overlooking the broad Hudson for most of the distance. In the houses at Scarborough Mr. Pierson appears to have pretty well solved the problem of cheapness combined with durability. Each house as added year by year shows some improvement over its predecessor—some economy in heating or equipment, some advance in operating, a little more light, a little better ventilation—until in the most recently constructed house it would seem as though the extreme limit of advancement had been reached. Mr. Pierson is not so convinced, however, and expresses the belief that the best houses of the present day will eventually be surpassed to the same extent as these surpass their predecessors of a few years back.

100,000 young roses are raised here annually, of which 25,000 are required for home planting; American Beauty and Meteor are the leading varieties. Kaiserin Augusta Victoria, Bridesmaid, Mme. Caroline Testout, Wootton, Perle and Bride are also grown, but in lesser quantities. Ten acres of ground outside are laid out in well kept nurseries for ornamental, deciduous and evergreen trees and shrubs, miscellaneous hardy herbaceous plants and bulbs, giving employment to thirty-five or forty men.

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

Do YOU WANT a copy of the rulings of the express companies about rates on shipments of plants and nursery stock? You will find full information in our trade directory and reference book for 1894. Price \$2.00.

DECORATIVE PLANTS.

Special offer of varieties and sizes that can be supplied in large quantities and are of exceptional good value

ARECA LUTESCENS.

3-inch pots, 12 to 15 inches high. \$ 1.50 per dozen; \$ 12.00 per 100
6-inch pots, 24 inches high, 3 plants in a pot 12.00 " 100.00 "

SPECIMEN PLANTS OF ARECA LUTESCENS.

9-inch pots, single stems, fine plants for decorating, about 6 feet high. \$ 7.50 each
9-inch pots, single stems, with several good side branches, about 6 feet high 10.00 each
12-inch pots, beautiful, perfect specimens in every respect, clean, well-firmed plants of very good value. 15.00 each
12-inch pots, a grand lot of bushy specimen plants, clean, well-grown stock in every respect, a special lot of plants, about 7 feet high, at 20.00 each

COCOS WEDDELLIANA.

A grand lot of plants, in 3-inch pots, well-grown, stocky and of good color, 12 to 15 inches high \$3.00 per dozen; \$20.00 per 100

Kentia Belmoreana. Per doz.

5-inch pots, 6 leaves, 24 inches high \$15.10
6-inch pots, 6 leaves, 24 to 30 inches high. 18.00
Each
8-inch pots, 6 to 7 leaves, 30 inches high \$ 3.00
8 inch pots 6 to 7 leaves, 48 inches high 5.00
9-inch pots, 6 to 7 leaves, 48 to 54 in. high 7.50
12-inch pots, 7 leaves, 60 inches high. 15.00

Kentia Forsteriana. Per doz.

3-inch pots, 4 leaves, 15 inches high \$ 2.50
5-inch pots, 5 to 6 leaves, 24 to 30 in. high 12.00
5-inch pots, 5 to 6 leaves, 30 to 36 in. high 15.00
6-inch pots, 6 leaves, 36 inches high 18.00
Each
7-inch pots, 7 leaves, 42 inches high \$ 3.00
9 inch pots, 6 to 7 leaves, 60 inches high 7.50
12-inch pots, 6 to 7 leaves, 72 inches high. 10.00

Latania Borbonica.

A grand lot of plants in 3-inch pots, 4 to 5 leaves, ready to pot up, \$8.00 per 100. Per doz.
6-inch pots, 24 inches high. \$12.00
7-inch pots, 24 to 30 inches high 15.00
8-inch pots, 30 inches high. 18.00

Pandanus Utilis.

2½-inch pots, fine stock for potting up, 75 cts. per dozen; \$6.00 per 100; \$5.00 per 1000.

Araucaria Excelsa.

Largest stock in the country. Each
5 inch pots, 3 tiers, 15 inches high \$1.25
6-inch pots, 4 tiers, 18 inches high 1.75
6-inch pots, 4 tiers, 24 inches high 2.50
7-inch pots, 5 tiers, 30 inches high 3.00
8 inch pots, 6 to 7 tiers, 36 inches high 5.00

Dracena Braziliensis.

A fine lot of this useful decorative variety, strong plants in 4-inch pots, 15 to 18 inches high, at \$2.00 per dozen; \$15.00 per 100.

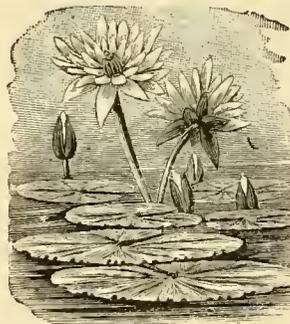
For a complete list of **Decorative Plants**, such as Palms, Ferns, Dracenas, Cycas, Pandanus, etc., etc., refer to our Quarterly List, mailed on application. Our stock this season is of exceptionally fine quality, and is complete as to assortment of sizes.

HENRY A. DREER,

714 Chestnut Street,

PHILADELPHIA, PA.

THE WATER GARDENS.



VICTORIA REGIA AND V. RANDI, NELUMBium SPECIOSUM (Egyptian Lotus);

WATER LILIES,

Hardy and Tropical in all colors, day and night blooming varieties.

These are now most popular flowers, and we cordially invite your inspection of our

EXHIBIT AT THE CONVENTION EXHIBITION.

WM. TRICKER & CO.,

CLIFTON, N. J.

MEDALS AWARDED

At the World's Fair for our New

CANNAS Columbia and Prima

They are now in full bloom at our Greenhouses and should be seen by all.

Those visiting the Convention can see sample plants at Robert Craig's, Philadelphia; also at F. R. Pierson & Co., Tarrytown, N. Y.

I. N. KRAMER & SON, CEDAR RAPIDS, IOWA.

Tuberous

Begonias

(GRIFFIN'S STRAIN.)

Plants in bloom, all sizes, at lowest prices.

OASIS NURSERY CO.,

Thos. Griffin, Mgr. Westbury Station, L. I., N. Y.



CHRYSANTHEMUMS

1000 IVORY, \$3.00 per 100.

Also several thousand in variety, late propagated, just the thing for 4 and 5-inch pot plants. List of varieties and prices on application.

NATHAN SMITH & SON, Adrian, Mich.

5,000 Richardia alba maculata, 1 yr. strong.
10,000 Hyacinthus candicans, 2 yrs., No. 1.
10,000 Double Tiger Lily, No. 1, \$20 per 1000.
Lily elegans, No. 1.
50,000 Lemoine's Hyb. Gladiolus, 25 named varieties.

Pæonies, 1 yr. transp. 25 named var.
5,000 Cinnamon Vines, 1 & 2 yrs.
5,000 Ipomæa paniculata, 1 & 2 yrs, strong, \$50 per 1000.

Ipomæa paniculata, from pots, \$25 per 1000.
Ipomæa pandurata (Hardy Moonflower), transplanted.

Wistaria magnifica, 1, 2 & 3 yrs, fine.
100,000 Oxalis bulbs, 4 or 5 named sorts.

LISTS FREE. E. Y. TEAS, Manager, IRVINGTON, IND., near Indianapolis. Mention American Florist

To the **FLORISTS OF AMERICA.**

Most of you will go to Atlantic City to attend the Convention. Of course I shall be with you as usual, with a small but interesting exhibit to show you, and with order book and pencil handy to write down your order for

Bulbs, Choice Seeds, Palms, Orchids, Foliage, Flowering and Hardy Plants.

Stop on your way home and inspect my New Establishment; easily reached every few minutes from New York or Newark.

W. A. MANDA, SOUTH ORANGE, N. J.

When writing mention American Florist.

ON EXHIBIT AT ATLANTIC CITY during Convention.

IMPORTED BULBS, PLANTS AND FOSTITE, the great remedy to prevent and check Mildew and Black Rot on Grapes and Roses, Carnation Rust, and cryptogamic diseases of plants, fruits and vegetables. **ALSO**

JOOSTEN'S MAGAZINE BELLOWS, Horse and Hand Power, acknowledged the best implement in existence for applying Fostite, Sulphur, Hellebore, Slug Shot, Grape Dust, London Purple, Paris Green, etc. to plants, vegetables, fruits and trees.

POWDER IN MAGAZINE CANNOT CLOG. QUANTITY TO BE APPLIED CAN BE REGULATED AT WILL.

THE BELLOWS WILL BE EXHIBITED IN WORKING ORDER DURING THE CONVENTION.

C. H. JOOSTEN, 3 Coenties Slip, NEW YORK,

IMPORTER OF BULBS, ROSES, ORNAMENTAL PLANTS, NURSERY AND FRUIT TREE STOCKS.

A Full Line of Bulbs, etc. at Bottom Cash Prices.

ZIRNGIEBEL GIANT PANSIES.

Owing to favorable weather, have been magnificent this season. Never before have we obtained such size and colors; and as usual, wherever exhibited, have eclipsed everything else, receiving also the most flattering testimonials from the leading florists and seedsmen all over the country.

New seed ready now of both the Giant Market and Giant Fancy in trade packets of 2,000 and 500 seeds respectively at one dollar each, with practical directions for growing pansies.

PLANTS READY NOW:

GIANT MARKET . . . \$5.00 per 1000
GIANT FANCY 20.00 per 1000

DENYS ZIRNGIEBEL, NEEDHAM, MASS.

Roemer's Superb Prize Pansies.
The finest strain of Pansies in the World.
Introducer and Grower of all the leading Novelties.
Catalogue free on application.
FRED ROEMER, SEED GROWER, QUEDLINBURG, GERMANY.

Pansy ★ Seed.

The **JENNINGS STRAIN** of high grade Pansy Seed. New crop now ready. Saved with special care from only the very finest varieties and warranted first-class in every respect.

THE JENNINGS XX STRAIN.

The cream of Pansies. Grand colors mixed. pkt., 1500 seed, \$1.00; 1 oz. \$8.00.

The Jennings Strain, finest mixed, pkt. \$1.00 about 2500 seed; 1 oz. \$6.00; 3 ozs \$15.00. No skin milk in this strain. (They are just as good as I can make 'em). To my old patrons I would say they are a big improvement over last season—more variety and finer colors. The best strain for florists either for winter bloom or spring sales; all large flowering.

Black Dr. Faust, finet. pkt., 2500 seed, \$1.00
Finest Yellow, black eye " " 1.00
Pure White, the best " " 1.00
Victoria, bright red pkt., 1000 seed, 1.00
All my own growth of 1894. Half pkts. of any of the above 50c. Please send money orders or registered letter. Cash with order. Address

E. B. JENNINGS, Wholesale Pansy Grower, Lock Box 254, SOUTHPORT, CONN.

Carl Schwanecke,

OSCHERSLEBEN, GERMANY.

Largest and oldest special culture of pansies; received premiums at all large exhibitions, the last at Chicago in 1893; offers first-class pansy seed, especially Cassier, Frimardeau and Bugnot, also all of the best older and newer kinds.

Send 2 francs for Catalogue. Mention American Florist.

PANSIES...

Every Grower Claims the Best.

I am willing to have mine tested alongside of any in the market. Over a thousand florists used them last season, were pleased with them and made money out of them.

Between Sept. 1st and Dec. 1st I will have a MILLION or more plants to sell. They can not be offered in competition with cheap grown seed, but quality considered, are remarkably cheap at the price.

By Mail or Express, prepaid, 75c. per 100; by Express at your expense, \$5.00 per 1000. Liberal discount will be allowed on large orders.

An honest sample of the plants will be mailed you on receipt of ten cents, and terms are absolutely cash in advance.

ALBERT M. HERR, L. B. 496, Lancaster, Pa.

PANSY SEED.

NEW CROP NOW READY. Very fine mixture of large flowering varieties and choice colors, especially selected for florists' use. 1 oz. \$3.00.

NEW GIANT PRIZE PANSY, finest strain in the market. 1 oz. \$5 00.

Low prices on Lillium Harrisii, Longiflorum, Roman Hyacinths, Lily of the Valley, etc.

Special low prices on Rustic Baskets.

HERRMANN'S SEED STORE,

413 EAST 34TH STREET, Near Long Island Ferry, NEW YORK.

Chicago to Atlantic City.

It appearing that satisfactory connections cannot be made at Philadelphia for Atlantic City on train leaving Chicago at 3 p. m. it has been decided to take the train leaving at 11 a. m., Sunday, August 19. This train reaches Philadelphia at 1:25 p. m. Monday and there are trains leaving Philadelphia for Atlantic City at 2 p. m., 3 p. m. and later up to 5:40 p. m. The run to Atlantic City from Philadelphia takes 2½ hours, so if the 2 p. m. train is taken the party can be in Atlantic City at 4:30 p. m., in ample time for the various committee meetings Monday evening. As the last train for Atlantic City leaves at 5:40 p. m. and the train leaving Chicago at 3 p. m. does not reach Philadelphia till 7 p. m. next day, going by that train would necessitate staying over night in Philadelphia and taking an early morning train to Atlantic City, which would of course be very undesirable, hence the change.

Those wishing to travel with the Chicago party will meet at the office of the AMERICAN FLORIST, 322 Dearborn street, 3d floor, between 9:00 and 10 a. m. Sunday, August 19, where the special rate tickets will be on sale. The train leaves the Union Depot at 11 a. m. Berths may be reserved by addressing the chairman of the Chicago Club's committee, Mr. G. L. Grant, 322 Dearborn street, Chicago.

Boston to Atlantic City.

The delegation from Boston to Atlantic City will leave, via Fall River Line, on Sunday, August 19, at 7 p. m., and return via same line on boat leaving New York on Saturday p. m., August 25. Tickets for this excursion can be procured of the undersigned at \$11.25 for the round trip.

Travel being very heavy at this time of the year a number of state rooms, at \$1 each, have been secured in advance, and will be assigned to applicants in order as received while they last. Early application is solicited, to the end that the greatest amount of comfort and pleasure may be secured for all. Address Wm. J. Stewart, 67 Bromfield street, Boston, Mass.

ROSE PLANTS.

	Per 100	Per 100
Am. Beauty, 3-in.....	\$8.00	\$10.00
Bridesmaid, "	8.00	" 10.00
K. A. Victoria "	8.00	" 10.00
Mme. Testout "	8.00	
Mme. Hoste "	6.00	
La France, extra.....	"	10.00
The Bride, 3-in.....	6.00	3½-in., 8.00
All fine, strong stock.		

BROWN & CANFIELD, Springfield, Ill.
Mention American Florist.

Fall Rose Plants.

Fine large plants, from 4½-inch pots, in all the standard varieties, \$7.00 and \$8.00 per 100.

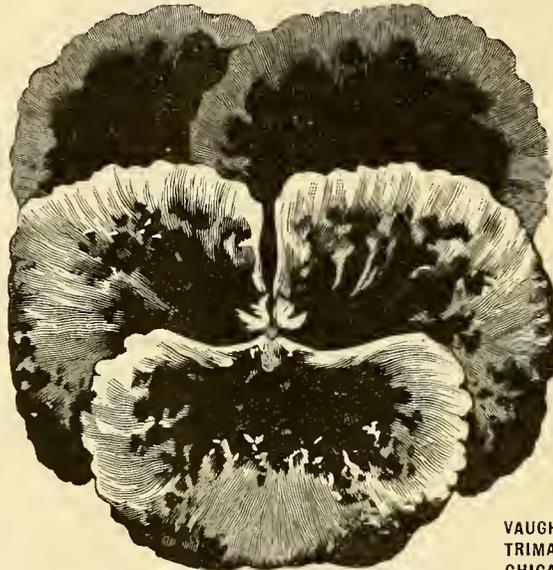
REX BEGONIAS.

Finest varieties, 3½-in. pots, \$4 per 100.
THE NATIONAL PLANT CO., Dayton, Ohio.

ROSES. ROSES. ROSES.

SURPLUS STOCK CHEAP, consisting of Brides, Mermets, Meteor, Bon, Safrano, Souv. d'un Ami, Niphotos, Beauties and Perles. All first-class stock from 3 and 4-in. pots. Price \$5 and \$7 per 100. Double White Primroses, 3-in. pots, \$6 per 100; Adiantum Cuneatum, \$5 per 100, 2½-in. pots, etc., etc. Large assortment and low prices. Let us hear from you. **HENRY SMITH,** 130 Monroe St., Grand Rapids, Mich.

VAUGHAN'S "INTERNATIONAL" Pansies.



Put up, named and sold by us for the past four years, from the best strains produced in Europe and America.

It is generally admitted that we have had the finest show of Pansies on the grounds of the World's Columbian Exposition, and for these we received the only award for mixed Pansies.

No other firm is authorized to offer our Vaughan's International Mixture, and those using this name to sell other mixtures, are "imitators." The genuine can be had in our packages only.

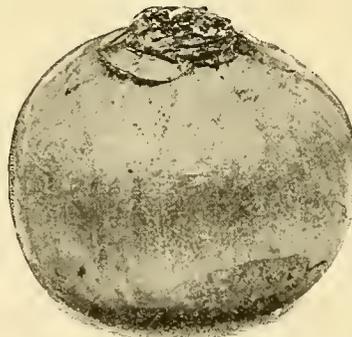
The new crop seed secured in Europe this season by one of our firm is now in our stores, and orders can be filled immediately from New York or Chicago.

Trade pkt. 50c; ¼ oz. \$1.50; oz. \$10.00.

Also
VAUGHAN'S GIANT MIXTURE, ¼ oz. 60c; oz. \$4.00
TRIMARDEAU IMPROVED, ¼ oz. \$1.00; oz. \$3.50
CHICAGO PARKS BEDDING, oz. \$1.00.

- CINERARIA.** Columbian, mixed, pkt. 1000 seeds, 50 cts.
- CYCLAMEN.** Giant varieties, 60 seeds, 50 cts.
- PRIMULA.** Vaughan's International, per pkt. 250 seeds, 50 cts.; 1000 seeds, \$1.25, 1-16 oz. \$2.00.

FORCING BULBS.



WE AGAIN INVITE THE ATTENTION OF THE TRADE TO OUR FACILITIES FOR SUPPLYING ALL FLORIST'S BULBS IN SEASON.

Our record for prompt delivery by special importation of each variety as it is ripened is admittedly a leading one.

Please examine our Exhibit of Bulbs at Atlantic City. Our full supply of Romans, Harrisii, Freesias, Narcissus and such early

forcing Bulbs are now in store in New York and in Chicago.

DON'T BUY WITHOUT OUR PRICES.

CROZY'S NEWEST CANNAS.

We will show sixty kinds, including the twenty Crozy Seedlings exhibited at the World's Fair and under our control, six of which received World's Fair awards.

Besides these we have twenty-five or more seedlings grown from Hybridized seed of the best named kinds.

J. C. VAUGHAN,

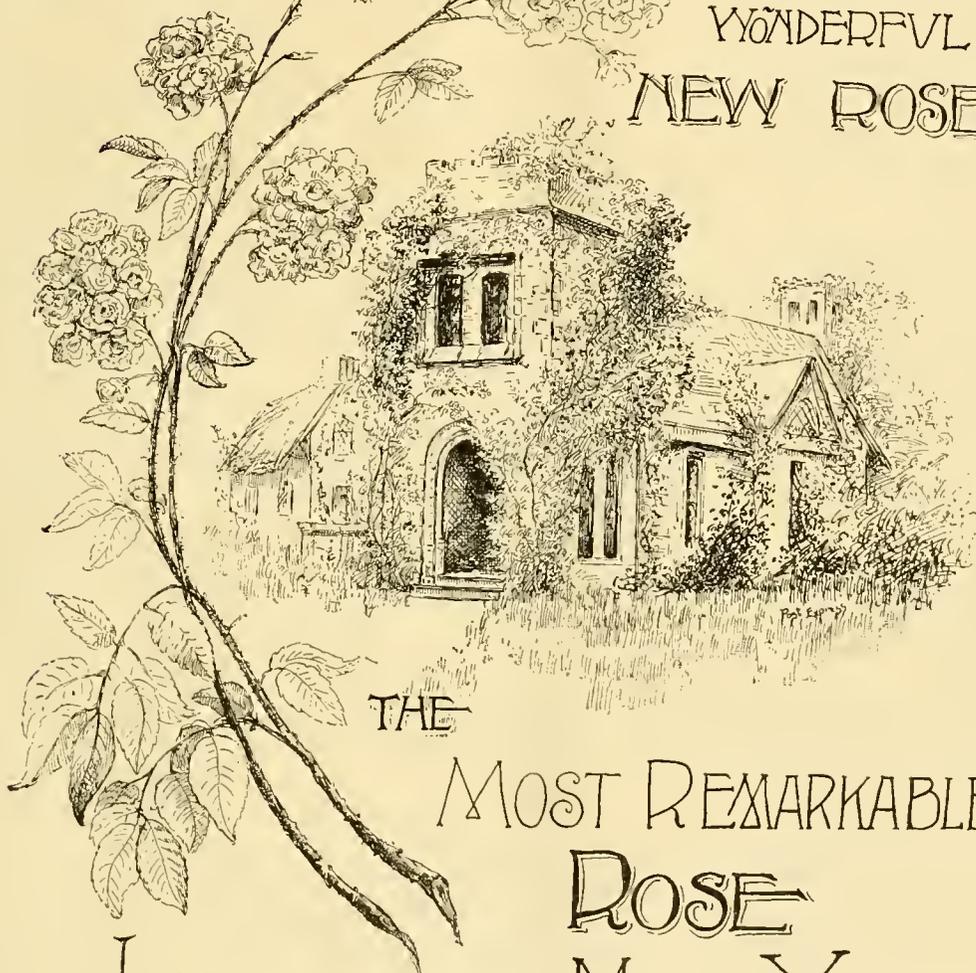
New York:
26 Barclay Street.

CHICAGO.
P. O. Box 688.

A GRAND NOVELTY.

CRIMSON RAMBLER

A
WONDERFUL
NEW ROSE.



THE
MOST REMARKABLE
ROSE
INTRODUCED IN MANY YEARS.

"300 Blooms on one Shoot."

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"The most beautiful hardy Rose of its kind introduced for many years."—*Gardeners' Chronicle, London, England.*

"Of the many fine garden Roses introduced during the past ten years, there is not one of greater importance or likely to prove more valuable than 'Crimson Rambler.'"—*Gardeners' Magazine, London, England.*

DESCRIPTIVE CIRCULAR AND HANDSOME COLORED PLATE FREE.

ELLWANGER & BARRY,

MT. HOPE NURSERIES.

54th Year.

Rochester, N. Y.

Foreign Notes.

At the horticultural examination of the Royal Horticultural Society, held May 1, the list of candidates included many who were not gardeners, for example, a number of teachers, both men and women, several clerks and mechanics, and one policeman! A good many women appeared among the candidates, the highest being eighth in the list. The questions of this examination were chiefly relating to market gardening.

Rhododendron Schlippenbachi is a Chinese variety recently introduced. It has something of the habit of R. sinensis (Azalea mollis) with large flowers, like Azalea indica. The flowers, open as an ordinary azalea, are three inches across, rosy lilac, spotted about the base with dark brown. There are often about six flowers in a cluster, making the plant very showy. It is a native of the wooded hills of Corea and Manchuria, and is a garden plant in Japan.

Among novelties in sweet peas from Mr. Eckford are Salopian, an odd deep crimson veined with deep purple, and Countess of Powis, brilliant rose carmine, very fragrant. These two varieties received certificates in London last month.

WE HAVE RECEIVED the "Botanical Guide to the Phipps Conservatories in Pittsburg and Allegheny City." It is a volume of 204 pages, freely illustrated, containing lists of the plants of different classes found in these conservatories. It is written in an interesting style, giving information regarding the different plants in a manner to interest the general public, for whose benefit it is designed. A copious index of common and botanical names adds to its value; the only criticism to be offered is some laxness in the proof reading, resulting in errors in plant names. The account of the parks is very instructive, and the whole book is of more than local interest.

DO YOU WANT the census statistics regarding the florist, nursery and seed trades? You will find them in our trade directory and reference book for 1894. Price \$2.00.

DO YOU WANT Mr. Scott's seasonable hints for the year in book form, so that you can refer readily to his suggestions for any week in the year? You will find them in this form in our trade directory and reference book for 1894. Price \$2.00.

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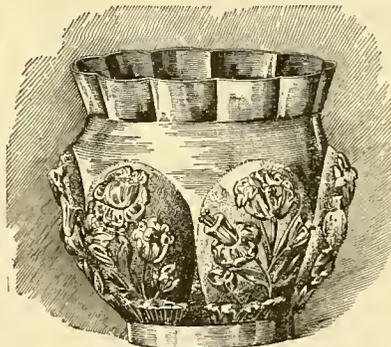
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Strong Plants from 3-inch pots, \$7.00 per 100.
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Strong from 3-inch pots, \$8.00 per 100.
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Perle, Niphotos, Mermet, Bride, Victoria, Meteor, La France, Albany, Gontier, White La France, Soupert and Bridesmaid, 2 1-2 inch pots, \$5.00; 3-inch pots, \$6.00 per hundred.

AMERICAN BEAUTY, 2 1-2 inch, \$6.00; 3-inch, \$8.00 per hundred.

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Roses, H. P. Roses, Rhododendrons, Azalea mollis, Clematis, Hydrangeas (bushy and tree form), Aucuba, Buxus, Acer in sorts, Viburnum plicatum, Dutchman's Pipe, Magnolias, etc.

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Foreign Notes.

Snow fell in the Alps July 15.
A new and showy hybrid bertolonia is *B. guttata* var. *Alfred Bleu*, obtained from Van Houttei × *rosea punctatissima*. The leaves are deep bronzy green, ribbed and spotted with brilliant carmine. The originator of this variety, M. Alfred Bleu, after whom it is named, is sending out a series of such hybrids, including some of great beauty and brilliancy of coloring.

Sonerila Mrs. H. Walter is a hybrid obtained from *orientalis* × *Hendersoni* elegans. The leaves are large, ovate elliptic, olive green, thickly marked with roundish silvery spots. It is very robust in habit and showy.

A variegated form of *Rubus japonicus* has been recently introduced; it is similar in growth to the type, but the leaf is variously marked with white, or often entirely white with red ribs and petioles. It is a showy plant, the foliage suggesting a resemblance to *Vitis heterophylla*.

Cochlioda Noezliana is a handsome and distinct orchid recently introduced from Peru. In habit it is similar to an *odontoglossum*; the scape is many-flowered, the color of the bloom being orange scarlet and very showy. The *cochliodas*, formerly known as *mesospinidium*s, comprise a small family of terrestrial orchids, closely allied to *odontoglossum*s.

At the recent sale in London of the Pickering Lodge collection of orchids some of the prices realized were as follows: *Cattleya Mendeli* var. *Bluntii*, \$500; *Sobralia xantholeuca* alba, in flower, \$220; *Cattleya Gaskelliana* alba, in flower, \$190; *C. crispum* superbum, very fine, \$260; *Sobralia Lucasiana*, a fine specimen, \$230; several *Odontoglossum vexillarium* superbum, in flower, from \$50 up; *Dendrobium Statterianum*, \$100; *Cypripedium Veitchii*, \$75.

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John Burton's
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YOU MAY WANT SOME
THIS WINTER.

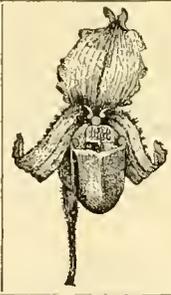
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Palms, Ferns and Foliage Plants.

My stock is strong, clean and perfect; has been grown with great care, and will be sure to give satisfaction both to the grower and dealer.

Parties coming to the Convention are invited to call and examine for themselves. Prices low.

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NEW PLANTS.

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Size of flowers 4 inches in diameter, petals clear white, center yellow.

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PALMS and Decorative Plants.

Areca lutescens, Kentia Belmoreana, K. Forsteriana, Latania borbonica, Phoenix rupicola, P. reclinata and Cocos Weddeliana, are the best and most popular Palms. I have many thousands, in all sizes, besides some other kinds not quite so well known perhaps, yet good. Also other Decorative plants such as Ficus elastica, Pandanus utilis, P. Veitchii, Araucaria excelsa, Aspidistra, etc., etc. All are in elegant condition, and all are for sale at moderate prices. I guarantee perfect plants and good packing.

SEPTEMBER AND OCTOBER ARE THE BEST MONTHS TO BUY IN.

Members of the S. A. F. are invited to inspect my stock of sample plants on Exhibit during the coming Convention, and are most cordially invited to visit my establishment en route to or from Atlantic City.



CHAS. D. BALL,

HOLMESBURG, Philadelphia, PA.

PRIMROSES.

Fine stocky plants, now ready for 3-inch pots

FLOWERS

large, all fringed; brilliant colors.

FIFTEEN SORTS.

Price, for the single sorts per 100, \$ 2.50

" double " per 1000, 20.00

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Extra plants with every order to help pay express.

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The regular meeting of the Florists' Club occurred on the 9th, and was well attended, the election of officers for the ensuing year being the principal business to be transacted.

Mr. Wells of the B. & O. road was present and was sorry to say that the B. & O. could make no rate for the club as a body as they had hoped to have done, owing to the matter having become known in railroad circles, and the rate formerly promised was declared off.

The election of officers resulted in the re-election of Alex Waldbart for president, Frank Fillmore for vice-president, Emil Schray for secretary and John Young for treasurer. The board of trustees consists of C. A. Kuehn, J. J. Benecke and R. F. Tesson. The secretary's report showed the club to be in a healthy condition, having an active membership of 60; the treasurer's report was very gratifying, a balance on hand of \$259 40.

After the election of officers a paper was read by Mr. Wors on the question of "wholesaling cut flowers" which caused considerable discussion.

Before the close of the meeting all members that would attend the convention provided a reduced rate were secured were asked to make the fact known and Mr. Waldbart ran up a list of more than fifteen possible attendants with which he will go to work and try and make rates. Those going will in all probability leave here on the morning of the 19th, going by way of Cincinnati, Washington and Philadelphia over the B. & O.

A special prize was announced by Mr. Weber, to be offered at the chrysanthemum show for carnations and another one hinted at for roses.

Mr. Harry Young and family left for the east on the 6th, expecting to spend some time on the coast before the opening at Atlantic City and were joined later in the week by Mr. Chas. Young and wife.

Everything is very quiet, convention talk being about the only thing heard.
R. F. T.

Studer Offers

8000 PALMS, healthy, grown without any stimulant or extra heat, just the size people mostly buy, will be worth twice their cost in a short time. Coeus Weddelliana, from 3 1/2-inch pots, 15 to 18 inches high, 20 cents each. Latania Bonboukia, Kentia, Coryphas, Phoenix, and Senforthia Elegans, the latter 2 to 3 feet high, the former 18 to 24 inches, all in 5-inch pots, 30 to 40 cents each. Ferns and Dracaenas in great variety. Othello Orange, with or without fruit. Gardenias, with buds. Violets and a large variety of bedding, basket, and ornamental plants, hardy and greenhouse Climbers, perennials, herbaceous plants and ornamental hardy Grasses, the best variety of ever-blooming Roses, etc. Send a trial list of what you want and get lowest prices.

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Palms, ORCHIDS, Roses,

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The Best and Largest Stock in the World. New & Rare Foliage & Flowering Plants. A grand selection for Stove, Greenhouse and Conservatory.

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Our Mr. A. Dimmock will be pleased to interview buyers or reply to any communication addressed to him at 205 Greenwich St., New York City

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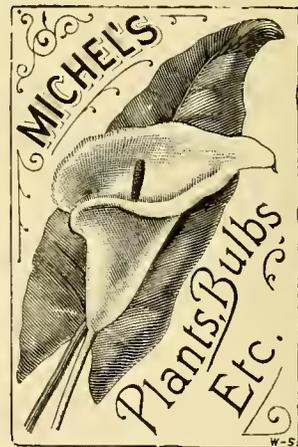
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3-inch pots, . . . per 100 \$4.00; per 1000 \$30.00
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ASPARAGUS TENUISSIMUS.

3-inch pots, per doz, 75c; per 100 \$6.00
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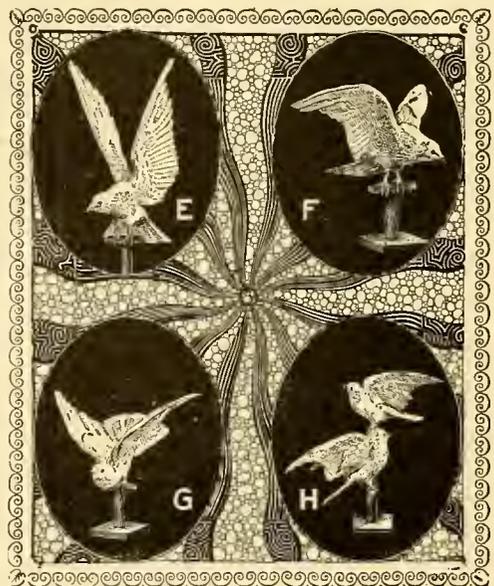
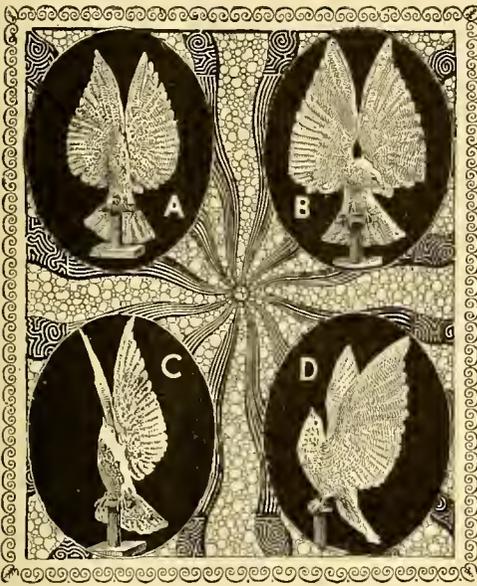
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Write for catalogue containing
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Wm. K. Harris

extends a hearty invitation to the members of the S. A. F. and their friends, to call on him, on their way to or from Atlantic City, and inspect his new place of over sixty thousand square feet of glass; over nine thousand feet of it being polished plate. The only greenhouses in the world glazed with this expensive glass.

A well appointed place, with everything adapted to the profitable production of our stock in trade, is not the only thing of interest here.

The clean, healthy growth of our plants is the admiration of many, especially the Rubbers. They are a wonder to all who have seen them! I have five houses full of this popular decorative plant, of all shapes and sizes, from a few inches to ten feet high, many of them making natural breaks—that is a plant producing many side shoots without being topped. This is a mystery to many, why mine should do so, and others not. The way to learn is to be taught, so come and see nature at work.

Plants, like people, are often stunted and sickly in the mansion, while the hovel contains health and vigor. In my plant palaces, health universally abounds, as we allow no excess of high stimulants among our occupants. They must all live upon plain fare, and take plenty of pure, fresh air.

Take train at Broad Street Station Penn. R. R. for 49th Street Station. It is only ten minutes' ride to 49th Street Station, and ten minutes' walk to my place from 49th Street Station.

Trains leave Broad Street Station as follows: 6:49—8:46—10:46 a. m. 12:13—1:28—2:18—3:15—3:47—4:33—5:16 p. m.

On Friday, August 24th and Saturday, August 25th, I will have a conveyance at 49th Street Station at the arrival of each train to convey my guests over. After inspection of my place, I will drive all who wish to see my friend Robert Craig. It is about a mile from here.

WM. K. HARRIS,
55th & Springfield Ave., Philadelphia, Pa.

Begonia Semperflorens Rosea.

THE EVER-BLOOMING SORT.

Is unrivalled as the best bedding plant, the best winter flowering, the best market and best selling plant we cultivate to-day. We have hundreds of it planted in full sun light, and nothing can surpass them in attractiveness and beauty. It sells the whole year round and is preferred here to the best Azaleas. We have sold many hundred in Auburn (6-in. pots), at 50 cts. to \$1.00 each, and the demand is constantly increasing. You will find this charming plant to give the greatest satisfaction and pleasure to your customers and greater profits by far to yourself than any plant now in cultivation.

I offer extra strong well rooted cuttings, and strong bushy well branched established plants, ready to move upwards, at the following reduced rates. Till **SEPTEMBER 30 ONLY** and **GUARANTEE** the safe arrival of plants. Extra plants added, per Express, cash with the **ORDER**.

	Express, Dozen.	Mail, Hundred.	Express, Dozen.	Mail, Hundred.
Rooted cuttings, fine plants	per 1000, \$25 00	\$0 50	\$0 75	\$3 00
2½-inch pots, splendid branched plants	45 00	1 00	1 25	5 00
2½ extra heavy plants, ready for 5 to 6 pots	50 00	1 50		6 00
4-in. heavy branched plants ready for 6 to 7-in. pots	80 00	2 00		8 00
5-in. strong, blooming plants		2 50		13 00
6-in.		3 00		16 00
7-in. splendid specimen, 1 foot diameter each,	50	4 50		40 00

On receipt of **ONE DOLLAR** I will Express Sample of the 6 first named sizes.

J. ELLETSON, Floral Nurseries,

Warranted the Genuine EVER-BLOOMING SPECIES.

AUBURN, N. Y.

ROSES & CHRYSANTHEMUMS

PERLES, 4-inch, strong, \$7.00 per 100
MERMETS, 4-in. " 7.00 "

The above are strong plants, from 4-inch pots, not grown in 3-inch and sold for 4-inch.

CHRYSANTHEMUMS: Per 100
Golden Wedding and Good Gracious,
2½-inch, strong plants.....@ \$5.00
Other choice cut flower varieties @ 3.00
FERNS, Adiantum cuneatum and other good varieties for cutting, from 4-inch pots, ready to shift.....@ 10.00
REX BEGONIAS, 3-inch pots.....@ 5 00

EVENDEN BROS.,
WilliamSPORT, Pa.

YOUNG PALMS FOR FLORISTS' USE CHEAP TO MAKE ROOM.

	Size pots.	Height.	Per 100
Kentia Belmoreana	3-inch	12 to 15 in.	\$20 00
" Forsteriana	3-inch	12 to 30 in.	20-25.00
Areca Baueri	3-inch	18 to 24 in.	25.00
Scaevola elegans	3-inch	18 to 24 in.	20.00
Phoenix reclinata	3-inch	8 to 10 in.	20.00
Pandanus utilis	2½-in.	8 to 10 in.	15.00

All stock is in healthy condition and ready for shifting on. 50 at 100 rates.

MENDENHALL GREENHOUSES, Minneapolis, Minn.

SMILAX. SMILAX.

Very strong, clean, healthy plants from
2½-inch pots, \$2.50 per 100;
\$20.00 per 1000.

Address **J. G. BURROW, Fishkill, N. Y.**



New Catalogue (No. 4) containing over 1,000 Ornamental Cuts for Florist's use, such as envelopes, letter heads, bill-heads, cards, aduers., floral designs, etc., at from 30c. and upwards. Price of Catalogue 25 cts. (deducted from \$1 order).

A. BLANC,
Engraver for Florists,
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Plants at Half Price.

Fancy Caladinn, 2½-inch pots, at \$35.00 per 1000.
Cape Jasmine, 2½-inch pots, at \$25.00 per 1000.
Cyperus alternifolia, 4-in pots, 7c; 5 in 9c; 6 in 12c.
Antherium vittatum var., 4-inch pots, 7c.; 5-inch, 9c.; 6-inch pots, 12c.
Phrynum, large plants, very cheap.
Vinca var. and Ampelopsis Veitchii, 2½-inch, \$2.00 per 100.

Large Palms very cheap. Please address
F. J. ULBRICHT, florist, P. O. box 655, Anniston, Ala

CELERY PLANTS

WHITE PLUME, GIANT PASCAL, and GOLDEN SELF BLANCHING.
Field-grown plants, \$1.25 per 1000.
The New PINK PLUME, transplanted plants, \$3.50 per 1000. Cash with order.
Sample mailed free.

C. M. GROSSMAN, Wolcottville, Ind.

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

Gordiner's Celebrated English Mushroom Spawn.
Fresh and Reliable.
\$7 per 100 lbs.
Special price on larger quantities.
John Gardiner & Co., Philadelphia, Pa.

Toronto.

Since writing my last notes there has been no rain, and outdoor vegetation is getting a thirsty look about it. Small places can be kept green with the hose, but in the case of parks and public squares it is no easy matter, and in some cases an impossibility. Among the florists I hear of nothing actually suffering, but still a shower would be most acceptable.

The annual picnic of the Gardeners' and Florists' Association, which was this year held at Victoria Park, on Wednesday, August 8, was quite a success, and though the excitement was at no time calculated to seriously injure ordinary people's nerves a very pleasant afternoon and evening was spent. Cricket, howls and quoits occupied most of the afternoon, then there were children's races with lots of good toys for prizes, and in the evening the boys and girls who are expert on the light fantastic toe indulged themselves to their heart's content. Many took the electric cars home, but those who waited and took the boat had the extra enjoyment of songs, music and the beautiful lake air. The weather though at one time threatening was most beautiful. Altogether the picnic was a great improvement on last year's, and still there is room for further improvement; experience in the management of these affairs is not gained in a day.

The final prize list for the chrysanthemum show will probably be published early in September; the committee wants to make sure of as much money as possible before finally deciding on the amount to be given as prizes. Two influential citizens are giving a good deal of their time towards getting a big subscription list, and it is likely that about \$750 will be given, which is \$200 more than last year. The committee seems to be fully alive to the necessity of doing more towards the decoration of the hall and the more artistic staging of the exhibits, so that the prospects for a really good show this year are bright. E.

Wholesale Commission Florists.

There will be a meeting of the wholesale commission florists at Atlantic City for the purpose of organization immediately after the afternoon session of the first day of the Convention.

BOSTON FLORIST LETTER CO.,

13 Green Street, BOSTON, MASS.

Address all correspondence to 1 Music Hall Place. Manufacture THE BEST LETTERS IN THE MARKET. Sizes 1½-inch and 2-inch, \$2.00 per 100. Patent fastener with each letter.

With orders for 500 letters we give away a nicely stained and varnished box. See cut in next week's American Florist.

Our letter is handled by all the wholesalers in Boston. AGENTS: A. Rolker & Sons, New York; Marschuetz & Co., 25 N. 4th Street, Philadelphia, Pa.; F. E. McAllister, 22 Dey St., N. Y.; Ernst Kaufmann & Co., 113 N. 4th St., Philadelphia, Pa.; H. Bayersdorfer & Co., Philadelphia, Pa.; A. D. Perry & Co., 33 Warren St., Syracuse, N. Y.; A. C. Kendal, 115 Ontario St., Cleveland, O.; E. H. Hunt, 79 Lake St., Chicago; Wisconsin Flower Exchange, 131 Mason St., Milwaukee, Wis.; H. Sunderbruch, 4th and Walnut Sts., Cincinnati, O.; T. W. Wood & Sons, 6th and Marshall Sts. Richmond, Va.; Jas. Vick & Sons, Rochester, N. Y.; Dan'l B. Long, Buffalo, N. Y.; C. A. Kuehn, St. Louis, Mo.; C. F. Huntington & Co., Indianapolis, Ind.; Z. De Forest & Co., 1024 Market St., Philadelphia, Pa.; Portland Seed Co., 171 2nd St., Portland, Oregon; A. Herrman, 415 E. 34th St., New York; Geo. A. Sutherland, 67 Bromfield St., Boston; Welch Bros., No. 1A Beacon St., Boston; N. F. McCarthy & Co., 1 Music Hall Place, Boston. J. A. Simmers, Toronto, Ont. Agent for Canada.

MEDAL AWARDED, World's Fair

ERNST KAUFMANN & CO.,

Wholesale FLORISTS' SUPPLIES

No. 113 North 4th Street,

Send for catalogue. PHILADELPHIA, PA.

BEFORE OR AFTER.

On your way to or from the CONVENTION don't fail to call at our spacious stores and see our

GRAND DISPLAY OF FLORISTS' SUPPLIES.

For various reasons we make *NO* exhibit at the Convention, but will have a unique display of *NOVELTIES* at our stores, to which we most cordially invite you all, and where you can see all the latest Importations. We do not ask you to buy, but to stroll leisurely through our spacious stores, where obliging employes will be at your disposal. *Don't fail to visit us.*

Yours Respectfully,

MARSCHUETZ & CO.

23 & 25 N. 4th St., PHILADELPHIA, PA.

Thousands of persons throughout America have the past thirteen years used

SLUG-SHOT

TO DESTROY

Currant and Cabbage Worms, Potato Bugs, Cucumber Fleas, Rose Lice, and Slugs, Lice on Cattle, Fowls, Etc.



There is scarce a place of size but will be found some merchant who sells SLUG SHOT, and usually in connection with the seed trade. The Great Seed Dealers are the chief distributors of SLUG SHOT. In all these years no case of harm from its use is known. SLUG SHOT stands to-day the most successful general insecticide in the world for use on VEGETABLES, FRUITS OR FLOWERS. It is put up in various sized packages to suit all wants. We prepare all sorts of INSECTICIDES and FUNGICIDES for spraying or in powder.

THRIP JUICE—For scale, Insects and Caterpillars. Used largely in Florida.

SOLUTION OF COPPER—For Rot, Blight, Etc.

GRAPE DUST—Powder for destroying Mildew on Roses and Gooseberries.

SCROFULARIA—Routs Carpet Beetles.

If you have trouble with Insects or Blights, write and we will try to help you. Send a postal for pamphlet to

B. HAMMOND, Fishkill-on Hudson, N. Y.

Sold by the Seed Dealers of America.

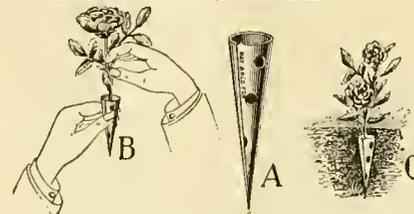
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Latest Device for Stemming Cut Flowers without Toothpicks and Wire.

Will keep set pieces fresh longer, as flower stem is entered deep in the moist moss. Manufactured by the Novelty Point Works in 5 sizes, from 1/8 to 1/2 inch in diameter.

In Boxes of 1000 Points

SIZE No. 160 cts. SIZE No. 3.....80 cts.
 SIZE No. 2..... 70 cts. SIZE No. 4..... 90 cts.
 SIZE No. 5 (largest), box of 250 points...32 cts.



PATENTED JULY 11th, 1893.

For sale by all leading Wholesale Seedsmen and Dealers in Florists' Supplies. Samples of all five sizes for trial sent by mail, postpaid, on receipt of 10 cents. Address

HERMANN RÖLKER, Room 3, 218 Fulton Street, NEW YORK.
 GENERAL AGENT FOR AMERICA AND EUROPE.

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Please mention the American Florist every time you write any of the advertisers on this page.

PAINT OR PUTTY.

For Greenhouses, Conservatories Or any other Structure.

HAMMOND'S PAINT AND SLUG SHOT WORKS, Fishkill-on-Hudson, N. Y.

Some men who have used our Paint. If they be at this Convention, quiz them.

- WOOD BROS.
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- Millbrook, N. Y.
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- Elizabeth, N. J.
- Huntington, Ind.

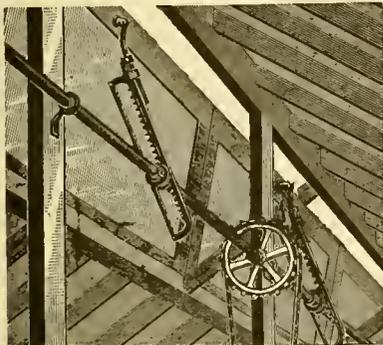
AND SO ON.

No Paint can be made too durable for the greenhouse none too handsome for the homestead. We make Paints **BECAUSE WE KNOW HOW**, and have facilities to do it. We ship to all Railroad Stations and Boat Landings without regard to distance, and will make prices laid down at your depot at figures which will pay you to patronize a cash market.

SEE HERE

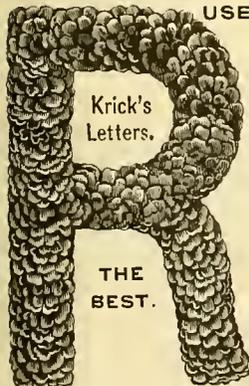
BROTHER FLORIST!

Aren't you tired going through your houses two or three times a day year after year and lifting your ventilating sash one at a time and propping them up with sticks or pots, with a chance of having sash blown off and broken glass to pay for? If you are



We have got just the thing you need, the **NEWEST** and **BEST** thing out. "The New Departure" for about half the cost of the old style. Send for Descriptive Catalogue to

J. D. GARMODY, Evansville, Ind.



USE W. C. KRICK'S

Florists' Letters, Etc.
Medal Awarded at the World's Fair.

And Highest Award Wherever Exhibited.

These Letters and Designs are made of the best Immortelles, wired on wood or metal frames, having holes drilled in them to insert tooth picks, by which they are fastened in the design. Give them a trial. You will find these goods to be superior to any in the market.

2-inch Letters, \$2.50 per 100.

Postage, 15 cts. per 100.

For other styles of Letters, Emblems and Designs, send for catalogue and free sample.

W. C. KRICK, 1287 Broadway, Brooklyn, N. Y.

For sale by all Florists' Supply Dealers.

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Victory! Victory! Victory!

The only Certificate of Merit awarded for ventilating apparatus at the St. Louis Convention was to the

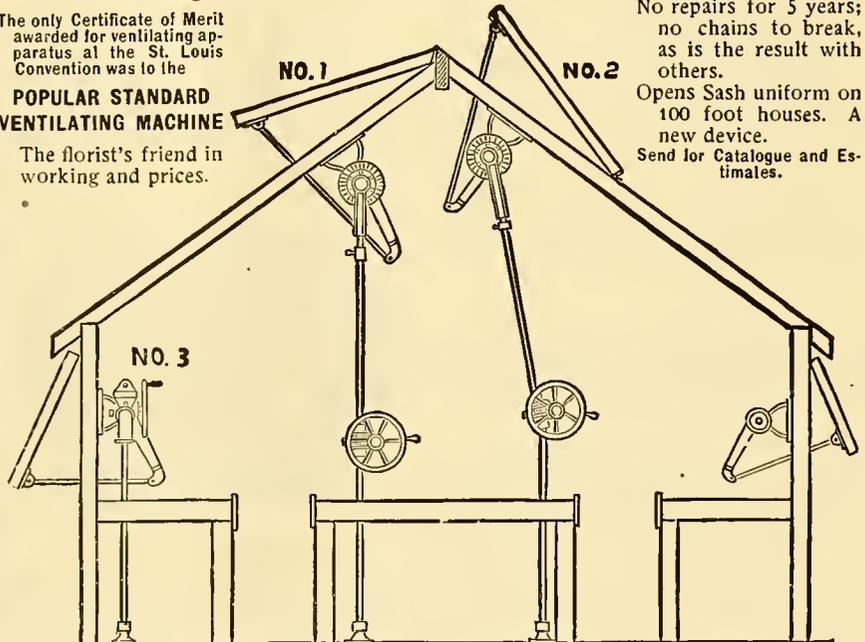
POPULAR STANDARD VENTILATING MACHINE

The florist's friend in working and prices.

No repairs for 5 years; no chains to break, as is the result with others.

Opens Sash uniform on 100 foot houses. A new device.

Send for Catalogue and Estimates.



E. HIPPARD, YOUNGSTOWN, OHIO.

EXAMINE THE

Ormsby · Ventilating · System

AT THE CONVENTION.

E. A. ORMSBY, Melrose, Mass.

"HARD TIMES" PALM COLLECTIONS.

For cash with order we give 17 3 and 4-in. Palms for \$3 (regular price \$4), and 34 for \$5 (regular price \$8). These comprise the best varieties, including Lantanias and Kentias.

WILLIAMS & SONS CO., Batavia, Ill.

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Cincinnati.

Hot and dry. Aug. 9 the thermometer stood at 97° in the shade and was inclined to go higher. Quite a number of our growers are busy hauling water and trying to keep their plants alive. Store trade has been quite good for the past week, several prominent people having died. The growers have been able to sell all the flowers they had.

Karl Brown of Livingston's Sons, Columbus, was in the city Tuesday.

I notice that on August 8 the George H. Mellen Company of Springfield, O., was incorporated under the laws of Ohio; Seeds and plants; capital stock \$25,000; incorporators, George H. Mellen, David N. Elder, Isaac W. Rodgers, John H. Rodgers and Caleb Tuttle. This company has bought the "Innisfallen Greenhouses," formerly owned by Chas. A. Reeser. The above incorporators are all good business men and well fixed financially. We wish them success.

August 9 the writer had the pleasure of visiting Richmond, Ind. Mr. E. G. Hill had just returned from the wilds of Michigan and is much improved from the trip. Says he had lots of sport fishing, and his health certainly shows it. His chrysanthemums are doing nicely and if nothing happens they will have two or three flowers in Richmond this fall. G. R. Gause & Co. are busy shifting and getting ready for fall trade. Beach & Co. were quite busy with funeral work, and I noticed some extra choice asters in one of their houses.

I am sorry to say that the railway companies, after making us rates to Atlantic City, have withdrawn same and now say it will be impossible to do better than mileage, which is 2 cents per mile. This will considerably reduce our party.

Reply to F. P.

1. The leaves of purple beech have evidently been eaten by some beetle or grasshopper, probably the latter.

2. Nothing outside of handpicking can be done to remove the mealy bugs from a graperly at this season. Wait until the vine rods are dormant and then give a thorough cleaning.

3. To prevent the grapes from cracking withhold water from the roots and see to your drainage.

ATLANTIC CITY, N. J. United States Hotel.

SPECIAL RATE TO FLORISTS

\$2.50 a day (two in a room) \$3 single.

FIRST-CLASS APPOINTMENTS
AND CAFE.

ENGAGE ROOMS IN ADVANCE.

JOHN S. DAVIS, PROP.

Patented June 26, 1894.

STRAPS

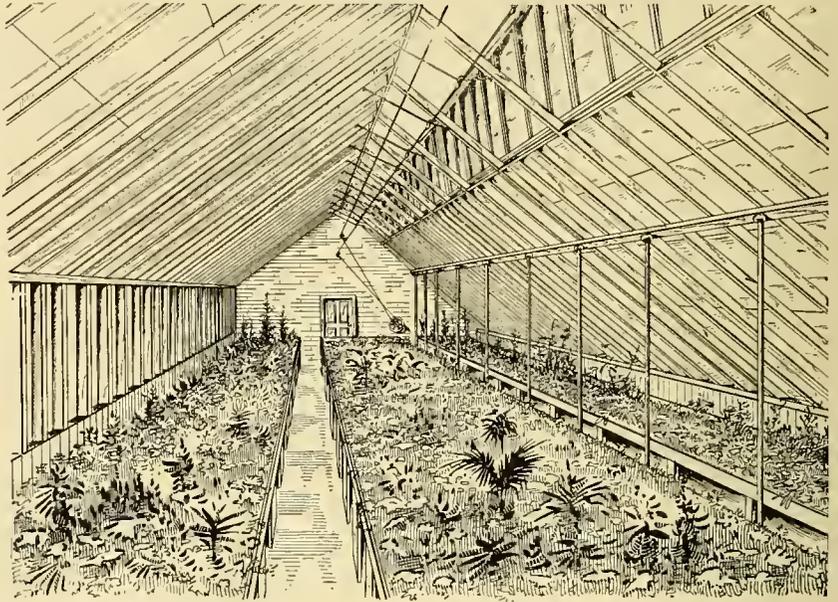
WITH

Unfolding Tight-Fasteners.

FRANK L. MOORE, Chatham, N. J.

Mention American Florist

THE CHAMPION



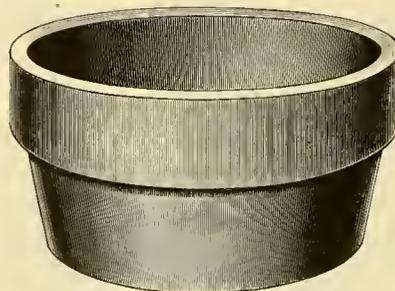
AUTOMATIC VENTILATOR.

The cheapest, easiest to operate and by far the best machine in the market. No shafting used in its construction. Don't buy a Ventilator until you have seen our illustrated descriptive circular, which will be sent you free, giving prices, etc. Also **Champion Soil Pulverizer and Sifter.** Exhibited at Florist Convention.

Address

A. Q. WOLF & BRO.,

331 E. 1st St., DAYTON, O.



WISHING TO INTRODUCE to the Florists our a good thing it is, we offer sample crates f. o. b. Detroit, which contains 51 5-inch, 24 6-inch, 21 7-inch, 20 8-inch, 16 10-inch and 15 12 inch, for \$7.40 cash with order. This is the price we sell by the 1000.

Of the many testimonials that we receive we call your attention to the communications of two of the best known expert Florists in this country:

DETROIT, July 19, '94.

DETROIT FLOWER POT CO.

SIRS:—We wish to say that we have used the Pots (as made by you) for the past seven years, and find them very useful for many things, such as bulb forcing, window and table decorations, fern growing, and might say we find them almost indispensable around greenhouses and store. We grow a great many single stem "mums" in them—one in a 5-inch pan up to a dozen to fifteen in a 12-inch pan, and cannot recommend them too highly to florists.

Respt yours, JNO. BREITMEYER & SONS.

BUFFALO, N. Y., July 17, '94.

DETROIT FLOWER POT CO. SIRS:—Will mail you my order for Pots in a few days. Don't be afraid to make up a good stock of them, for when the florists find out what a good thing they are for bulbs, ferns, seed pans, etc. you will have a grand rush for them. I use them for forcing all bulbs, and find the 8 and 10-inch grand for Tulips, Romans, Narcissus, Daffodils. The 5.6 and 7-inch for Ferns, Freesias and Valley, and any of the sizes are good for table or window decorations. I also find them a grand thing for growing "Mums" to single stem flowers; an 8, 10 or 12-inch pan with from 10 to 20 plants is a fine thing.

Respectfully yours,

WM. SCOTT.

Price List of Standard Flower Pots sent on application.

DETROIT FLOWER POT MANUFACTORY, Howard, Wabash & Thirteenth Sts., Detroit, Mich.

The Annual Meeting

—OF THE—

Florists' Hail Association

will be held at the CONVENTION HALL, Atlantic City, on Thursday afternoon, Aug. 23d, 1894.

The headquarters of the Secretary while at Atlantic City will be at Convention Hall, where information concerning Hail Insurance will be cheerfully given.

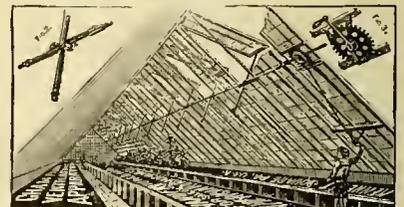
JOHN G. ESLER, Sec'y.

GLASS. ROCK BOTTOM PRICES Send for Estimate. Satisfaction Guaranteed.
REED GLASS CO.,
65 Warren St., and 46, 48 & 50 College Place,
New York City.

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And get the BEST. This is it.



The Champion Ventilating Apparatus.
CHEAP. DURABLE. EFFICIENT.

Circular tells the whole story. It is free.

AMERICAN ROAD MACHINE CO.,
KENNETT SQUARE, PA.
Mention American Florist.

TOBACCO DUST. Per 10 lbs 50c; 25 lbs \$1.00; 50 lbs \$1.50; 100 lbs \$2.50. Extra fine, per 100 lbs \$5. Sample FREE.

Vaughan's Seed Store, Box 688, Chicago.

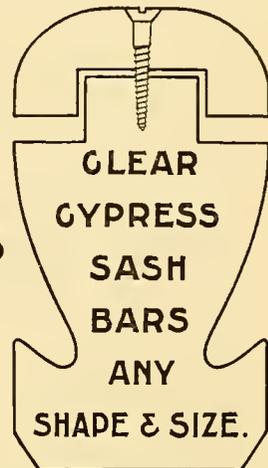
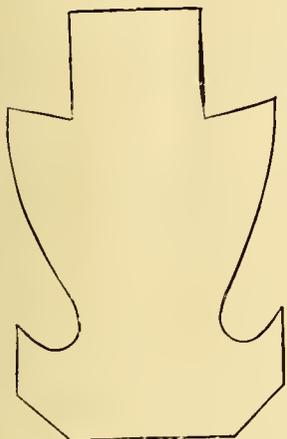
JOHN C. MONINGER CO.

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GREENHOUSES, ROSEHOUSES, AND CONSERVATORIES.



We carry constantly a large and complete stock of

CLEAR LOUISIANA CYPRESS LUMBER
AND CAN FILL ALL ORDERS PROMPTLY.

297 to 307 Hawthorne Avenue, CHICAGO, ILL.

Send for Illustrated Catalogue.

LITTLE'S ANTIPEST.

Valuable Discovery of the 19th Century.

SILVER MEDAL AWARDED

— BY THE —

CALIFORNIA STATE FAIR OF 1890.

This preparation is a sure destroyer of the **Scale, Woolly Aphis** and **Insect Pests** of any and all descriptions. It may be as freely used in the conservatory, garden and greenhouse as in the orchard or vineyard. It is non-poisonous and harmless to vegetation when diluted and used according to directions. It mixes instantly with cold water in any proportion. It is **Safe, Sure** and **Cheap**. No fruit grower or florist should be without it.

Send for Circulars and Price List.

R. W. CARMAN, General Agent,

291 AMITY STREET,

FLUSHING, Queens, Co., N. Y.

J. N. STRUCK & BRO.

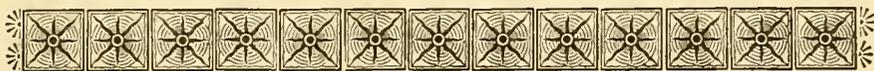
Manufacturers of

• CYPRESS •

Greenhouse Material,

LOUISVILLE, KY.

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BONNAFFON DETACHABLE STEEL FENCE.

Please examine this fence at the

CONVENTION EXHIBITION,

Atlantic City.

The Neatest, Cheapest, Most Durable

AND BEST

fence for Farms, Gardens, Lawns, etc.



Mention American Florist.

CATALOGUE PRINTING. ELECTROTYPING.

Done with expert ability for Florists,
Nurserymen, Seedsmen. Write to

J. Horace McFarland Co.

HARRISBURG, PA

When writing mention the AMERICAN FLORIST.

Baltimore.

A most unparalleled drought is burning up out-door plants and destroying crops in this locality, making the gardener's life a burden of watering and syripping, and with all his efforts, leaving him neither the velvety grass nor the brilliant flowers that are generally to be had with very little exertion. The market men are a cheery lot and a walk among them is good for the blues, as the writer found last Saturday at Lexington market. "Give me seventy-five cents and I won't unload" said one. "I won't take less than five dollars for my chance" said another, and with chat and banter the awnings went up and really nice plants of asters, geraniums, begonias, ficus, cyperus and palms were set out to catch dimes of the passer by. It is a pleasure to see as good plants offered in such a season as are to be seen now in our markets.

One of our Israelitish cash bargain merchants has taken permanently to handling plants it appears, as he is still offering fern pans filled along with fifty dollar bicycles, ten cent candy and three cent dry goods.

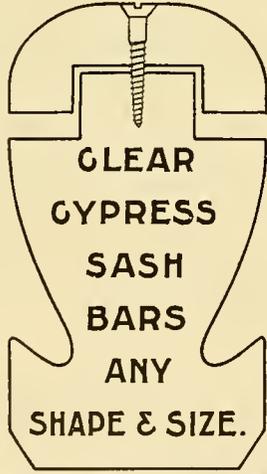
The prospect of a large attendance of the club at Atlantic City is not very encouraging just now, probably many will make up their minds at the last moment and go.

Mr. Hy. Wiedey is putting up a small greenhouse adjoining that built last year on the York road.

Messrs. Samuel Feast & Sons are building two roses houses each 100x20.

Brackenridge & Co. have secured Mr. Jno. C. Lewis, for several years past with R. Scott & Sons, Philadelphia, as manager for their "Rosebanks" place. M.

Greenhouse



**CLEAR
GYPRESS
SASH
BARS
ANY
SHAPE & SIZE.**

MATERIAL

JOHN G. MONINGER, CO.
MANUFACTURERS
307 HAWTHORNE AVE., CHICAGO, ILL.

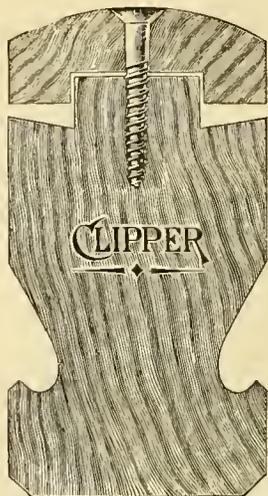
Standard Flower Pots.

10 per cent. off for cash with order. Special discount on large orders. We carry a large stock on hand of good strong pots.

PRICE LIST OF STANDARD FLOWER POTS.

1 1/4-inch pots, per 1000	\$ 3.00	6-inch pots, per 1000	\$22.00
2 "	3.25	7 "	55.00
2 1/4 "	3.50	8 "	50.00
2 1/2 "	4.00	9 "	75.00
3 "	5.00	10 "	per 100 10.00
3 1/2 "	7.25	11 "	15.00
4 "	9.00	12 "	20.00
4 1/2 "	13.50	14 "	40.00
5 "	16 "	16 "	75.00

Address **HILFINGER BROS. POTTERY,**
FORT EDWARD, N. Y.
August Rolker & Sons, 136 & 138 W. 24th St., New York City, New York Agents.



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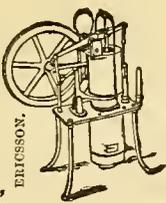
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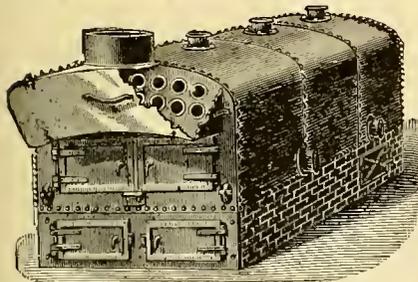


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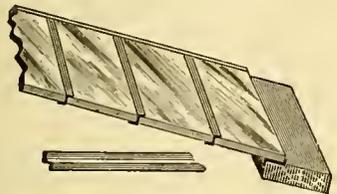
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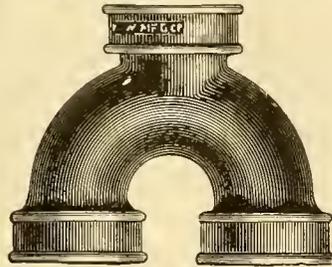
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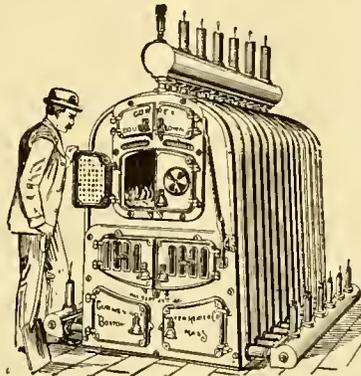
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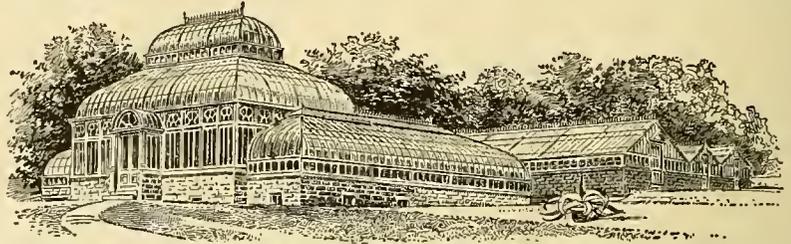
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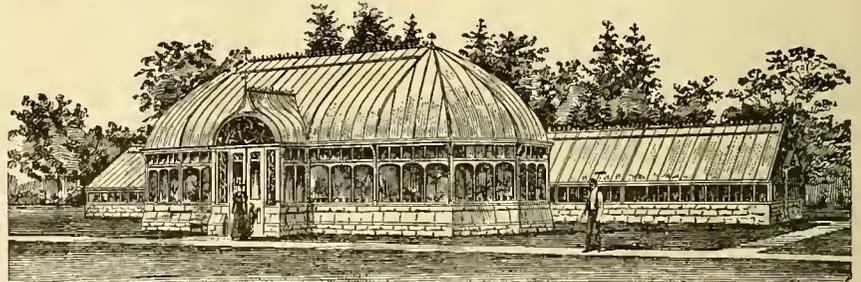
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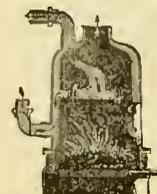
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Vol. X.

CHICAGO AND NEW YORK, AUGUST 25, 1894.

No. 325

THE AMERICAN FLORIST

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The Atlantic City Convention.

The opening session of the tenth annual convention was peculiarly auspicious. It was an ideal morning, and the delegates, most of whom had arrived on the previous day, thoroughly refreshed by the bracing sea air, were in the best of spirits and ready to enter with zest into the exercises before them. The hall was beautifully decorated with hunting and plants, and was well filled when at 10 a. m. President Lonsdale of the Florists' Club of Philadelphia mounted the platform and called the meeting to order, and presented Rev. C. C. Stewart of Easton, Pa., who offered a short prayer. Mr. Lonsdale then introduced Hon. F. P. Story, Mayor of Atlantic City, by whom the visitors were cordially welcomed. The mayor expressed the pleasure of the local authorities in extending the freedom of the city to the representatives of a profession which was universally respected and appreciated. He hoped that all his hearers would be so well pleased with their visit that they would wish after going home to visit the place again. He mentioned, as an evidence of the orderly and exemplary character of the city, the fact that while the number of its inhabitants on the previous Sunday had exceeded 200,000 not a single arrest had been made by the comparatively diminutive police force of sixty. The mayor reiterated his welcome, and expressed the hope that genial skies and refreshing breezes would contribute to the enjoyment of the city's guests.

Mr. Wm. Scott of Buffalo made an appropriate response on behalf of the convention. He alluded to the wondrous growth and superior attractions of Atlantic City. Although the average summer population was reported at 160,000 the speaker said he had not heard of a single instance of disorder in this great seaside community during the twenty-four hours since his arrival, nor had he yet discovered the presence of a single policeman. He complimented the mayor by suggesting that that official might reasonably be assumed to embody in his own personality the persuasive power and force of a hundred policemen. Eulogizing New Jersey as the banner state in the union in floriculture Mr. Scott explained that within ten years that state had produced more roses, carnations, violets, and other flowers than all the rest of the American continent. Up to a recent date it had contained the largest and most renowned floricultural establishment. He then reviewed the ten years history of the S. A. F., with its annual meetings in the leading cities, and congratulated his hearers that they had found the ideal city for a convention in the summer season. To the Philadelphia florists he said the S. A. F. was indebted for the pleasant meeting now being enjoyed. That city of loving brotherhood, not satisfied with the hospitality it had extended

on the occasion of the second annual convention, which was held there, had repeatedly insisted that the florists should again become their guests. He thought that Philadelphia was desirous of playing the host permanently. Concluding with expressing the thanks of the visitors for the mayor's welcome, he said his associates would utilize to the utmost the opportunities of recreation afforded by the freedom of the city now accorded.

President Anthony then read his address as follows:

President Anthony's Address.

LADIES AND GENTLEMAN: The year which has passed since our last meeting has been one of great depression in all lines of trade. The florist's business has felt the depression in trade, and has received its first check in its onward progress. Let us hope the check is but temporary.

In view of the fact of the dull times it affords me great pleasure to see so many members of the Society of American Florists present at this meeting. Coming as they do from all parts of this country it augurs well for the future meetings of the society when an attendance of this size can be had in times like the present.

The progress that has been made in ornamental horticulture in the short space of ten years since this society was organized is truly marvelous. A comparison of the chrysanthemum show of last year with those of ten years ago will demonstrate the remarkable improvement that has been made in the cultivation of show flowers. The development of the chrysanthemum has surpassed the expectation of the most enthusiastic cultivator of ten years ago. Though the material progress of these shows has been thus remarkable it is not more so than has been the increase in their numbers. Only a few years ago flower shows were held in less than a half dozen of our large cities. There are very few towns now of any importance in which a more or less pretentious flower show is not held.

That the improvement of carnations has been nearly as great of the chrysanthemum everyone will admit who has seen the splendid display of that flower at the meetings of the Carnation Society. The great improvement in carnations that has been made in the last few years has been almost entirely by American cultivators. The carnation as grown in this country differs so materially from those grown in Europe that those produced here might be called carnations of American type.

While the carnation and chrysanthemum growers have been making these gigantic strides towards the ideal chrysanthemum and carnation, what have the rose growers of this country done to improve that flower? It is true that w

THE ATLANTIC CITY convention will be found pretty well covered by our reports in this issue, though reports of the entertainments of Friday are unavoidably left until next week. It is safe to say our tenth anniversary saw one of the most interesting and instructive meetings we have yet experienced, and everything points to a long and prosperous career for our national society.

MILLBROOK, N. Y.—A chrysanthemum show will be held here November 6-7. There will be exhibits of fruits, flowers and vegetables, in addition to the chrysanthemums.

DO YOU WANT a list of the leading cemetery superintendents? You will find such a list in our new trade directory and reference book.

have greatly improved our methods of cultivation of the rose for the production of bloom, and are enabled to produce them in large quantities and of a better quality, leaving the production of varieties almost entirely to growers in other countries, where the climate is as different from ours as our methods of cultivation and uses to which we put the rose are different from those of the European growers. The result is that vast sums are paid every year for new roses, very few of which are ever heard of after the first trial. Let me ask the question, why can we not produce our own varieties of roses as we do carnations and chrysanthemums? It is true that it takes a longer time to produce results with roses than with either carnations or chrysanthemums, but would not the results when attained be worth the cost? This seems to me to be the most promising field for some enterprising rose grower. I believe the time will soon come when we shall have a class of roses of American origin especially suited to our climate and requirements.

We had fondly hoped that the bill which is before congress, granting this society a national charter, would have passed before now. It is a matter of prime importance that a charter be procured, and it is very desirable that we have a national charter, but if one should not be granted before this congress adjourns I would recommend that a charter be secured from the District of Columbia or some one of the states. The Society of American Florists has been a homeless wanderer for ten years. The time has now come when we should secure a home, a suitable office should be procured for our secretary, where the books and papers of the society could be kept, and where periodicals and reports on subjects connected with horticulture could be collected, and in time a library.

The secretary should receive such compensation for his services as would enable him to devote his whole time to the interests of the society. Much of the work that is now intrusted to committees, such as the committee on statistics and nomenclature, could either be done by the secretary, or the committee could be materially assisted by him. There are innumerable ways that a paid officer could be of great benefit to the society. I would earnestly recommend that arrangements be made as speedily as possible to carry this recommendation into effect. The secretary and treasurer should be required to give a bond to the society for the faithful performance of their respective duties. This has not been done heretofore.

What are to be the future relations between this society and its numerous offspring, the chrysanthemum, carnation and rose societies, should receive our serious consideration at this time. That the chrysanthemum and carnation societies have done much good by imparting useful knowledge in the culture of their special favorites we all know, but could not this work be as well done by a section of this society as by a separate organization, on the principle that in union there is strength? I think the work of all the societies could be much better done by the Society of American Florists. It would certainly be more convenient to have one secretary's office for all the societies than to have them scattered as they now are.

It seems to me that the Society of American Florists can confer no greater benefit upon the profession than to provide a means whereby the wheat may be separated from the chaff among the army of journeyman florists. I believe it can

do this by establishing an examining board whose duty it shall be to examine florists, who may wish to avail themselves of the privilege, granting certificates setting forth the degree of proficiency possessed by each one examined. The examination might be oral or written, or a combination of both. The subjects touched upon would naturally be very diversified, but not more so than the florist's daily work. There should be a separate examination for each specialty; take for example the rose. The one subject might be divided into numerous heads, say:

- a Propagation,
- b General culture,
- c Insect enemies,
- d Fungus enemies,
- e Fertilizers and how to use them,
- f Growing for flowers,
- g Growing for plants, etc.

A man, who, after wrestling with these inquiries, carried out to their fullest extent, could show a first-class rose certificate, would hardly need any other voucher, and one possessing rose, carnation and chrysanthemum certificates would not need any other evidence to prove himself a good all around grower of these flowers. The growing of general hedging plants could be covered in another division, and of hardy plants in still another. Orchids too, and palms and like decorative plants should be provided for. In these days of specialties it is not necessary that a man should have a high percentage in every department. We already talk of rose growers, carnation growers, etc. If we know just what a man can do (where he is strong and where he is weak) selection for the work of most importance to the employer is simple.

That some such plan would be equally to the advantage of the working florist and his employer no one can doubt, and that it would give our profession a higher standing in the eyes of the public is equally certain; people have a good deal of respect for organized effort in any form. When it is known that a florist, to be recognized as such, must pass a careful examination and receive a certificate of proficiency people will conclude that they really occupy a higher plane than an agricultural laborer, with whom they are very often classed.

As to employers, the granting of certificates should greatly simplify their anxieties as regards help. Those who want good men, worthy of fair wages and fair treatment, will want men who hold certificates; if they want cheap labor they must expect unskilled labor. Such a consummation as this, likely both to elevate the position of the journeyman florist, and to lessen the anxieties of his employer, is surely worth consideration. The adoption of such a plan of work would also surely strengthen the Society. It would bring to its annual meetings many journeymen anxious to secure certificates from the examining board (which should be in session at each annual meeting), and certificates issued by it would magnify its importance as an organization of real practical benefit to the trade. Of course the examining boards should be composed of the best and most capable men in the society in the several divisions, and certificates awarded with the greatest care.

Discussion of the president's address followed. This was confined almost exclusively to that feature of it which recommends the appointment by the society of

an examining board, before whom young men shall be invited to appear for examination as to their qualifications for the business, and that certificates shall be issued to applicants showing their degree of proficiency. Several speakers deemed the project impracticable, while others contended that the society would do well to make an effort to put the plan into execution, believing that good would result. No definite action was taken at the time.

In the absence of Prof. Trelease of St. Louis, chairman of the Committee on Nomenclature, the report was read by Mr. May.

Secretary Stewart's Report.

The story of the meeting at St. Louis last year having been given in full detail in the printed report, it is hardly necessary to make more than a general allusion to it on this occasion. There are a few points however, to which we might profitably give a moment's attention. It had been expected that the World's Fair would prove a contributing attraction, it being the general opinion that the attendance of eastern members especially would be much larger on this account than would ordinarily be the case at a point so far west, but these expectations were not realized, and it transpired that the World's Fair, instead of enhancing our attendance, had the contrary effect. Not many of our craft could spare the time to visit both Convention and Fair, so they naturally chose the latter.

Another drawback to last year's attendance was the fear of hot weather; this happily proved to be unfounded, and whatever the ordinary St. Louis weather may be, we must give it credit for having treated us well on that occasion.

These were the drawbacks. They were offset by many advantages which the visitors were not slow to appreciate, and which made the occasion one of the greatest enjoyment to all those who were present. Whether in visiting the far famed Shaw Botanical Gardens, riding through the beautiful avenues and parks of the city under the escort of our big hearted St. Louis brethren, listening to essays and discussions of more than the usual interest and value, or in meeting with the famous horticulturists from the Old World who honored us with their presence, the St. Louis Convention was a continual round of enjoyment both physical and mental, and all felt at home, from the moment we listened to those eloquent words of welcome from St. Louis' gifted mayor until we took a last lingering look at the radiant arches of the illuminated city.

As in every instance where the attendance at a convention has been small the receipts for the year have been materially reduced. From present indications the falling off is only temporary, however, as a large majority of the members who failed to pay their dues last year are coming forward cheerfully and making their arrearages good, and there is no doubt that the present year will see our paid up membership list fully up to the maximum. The whole number of dues collected for 1893 up to August 19th, is 607, and member of 1892 in arrears for 1893 numbers 269, but these figures will change considerably for the better when the large number of arrearages paid up at this meeting are counted.

Death has made unusual havoc in our ranks since we last met. Eleven of our members have been taken away, and in this number are included two who were among the Society's founders, and have



EDWIN LONSDALE

PRESIDENT-ELECT SOCIETY OF AMERICAN FLORISTS.

always been faithful workers in its behalf. The list of deaths is as follows:

N. Singler, Washington Heights, Ill., August 24, 1893.

C. A. Dahl, Atlanta, Ga., September 1893.

Thomas Hudson, Northampton, Mass., September, 1893.

H. A. Daacke, New York, N. Y., October, 1893.

J. R. Bather, Clinton, Iowa, November 22, 1893.

W. F. F. Murray, Atco, N. J., November 22, 1893.

R. J. Halliday, Baltimore, Md., March 11, 1894.

Harry C. Gass, Alleghany, Pa., March 20, 1894.

M. A. Hunt, Terre Haute, Ind., April 23, 1894.

L. Guerineau, Northampton, Mass., June 8, 1894.

W. M. Eldridge, Wilkesbarre, Pa., August 6, 1894.

The regular winter meeting of the Executive Committee was held at Philadelphia on February 13 and 14. The Philadelphia brethren were kind and thoughtful as always. Many timely questions regarding the Society's future policy and work were brought forward and earnestly discussed, and the foundations laid for the very comprehensive program which is now before you. Among the more important matters considered were our relations with the Hail Association, the Chrysanthemum and Carnation Societies and other auxiliary organizations, the feasibility of devising some equitable and economical plan of greenhouse insur-

ance against fire, the injury sustained by the trade through the shipment of lily blooms from Bermuda and the remedy therefor, the work of the Nomenclature Committee as well as that of the two special committees provided for at the St. Louis meeting, viz; on a standard List of Commercial Decorative Plants and Statistics of Exports and Imports. Requisite funds for the needs of these committees in their work were duly provided for.

The change in time for the sessions of this Convention, and substitution of afternoon for evening meetings was in accordance with the advice and request of Philadelphia members, who explained to the Committee that on account of the attractions and distractions peculiar to Atlantic City a fuller attendance at the meetings would thus be secured.

The annual badges provided for the Society having been long regarded as inartistic and inappropriate it was decided to have a new die made, which while adhering to the old design of a rose leaf should be a more truthful representation of that object, and it is believed that the members generally will be pleased with the change.

Resolutions in memory of the late Geo. W. Childs were drawn up by a special committee, and an engrossed copy prepared and sent to Mrs. Childs on behalf of the Society of American Florists.

Your Secretary would respectfully bespeak for the noted specialists who are to address us, a full attendance of all our members at the meetings, a recognition

to which these gentlemen are justly entitled. Note particularly the early hour at which the morning sessions open, and bear in mind that a full hall and prompt opening at the time named in the program will be due courtesy to the essayists, and will conduce to the pleasure of each and every individual by ensuring an early adjournment to the beach and its delights.

The committee on a standard list of decorative plants sent in report, which was read. Certain instructions to the executive committee suggested in the report were ratified by a vote of the society.

At the afternoon session Mr. W. H. Taplin of Holmesburg, Pa., read his essay on "Requirements for the elevation of our business" as follows:

Some Requirements for the Elevation of Our Business.

BY W. H. TAPLIN, HOLMESBURG, PHILA., PA.

In considering the problem of the elevation of our business, it will doubtless be remembered by many of those present that various phases of this subject have been very ably discussed by former essayists before this society, and it will therefore not be necessary to enter into any lengthy explanations or arguments as to why the business needs elevating, the admitted fact that there is room for improvement being quite sufficient excuse for the present writing, and this same fact will in all probability furnish the opportunity for much abler papers from other pens at future conventions of the Society of American Florists.

We find from daily experience that the most successful men of business are the most systematic ones, those who pay the strictest attention to the details of organization, and keep thoroughly posted in regard to any movements that tend towards the advancement of those interests in which they are particularly concerned. Eternal vigilance, we are told, is the price of success, and this is nowhere more true than when applied to the business of a florist, a business in which the habit of close observation is of the first importance if we desire to keep our stock up to a given standard, and our business abreast with the times, for in this age of keen competition the man who hesitates is lost.

Taking the figures of the last census as a basis, we can safely estimate that our business now represents an invested capital of nearly forty millions of dollars, and an interest of such magnitude as this sum indicates certainly should have some standing among the industries of the country. But our methods must be such as to command respect in order to gain recognition from the business world in general, and one great requisite in this direction is the practice of more system in our housekeeping, if we may be permitted to use this term in reference to greenhouse work. The man who takes no account of stock, and does not know the result of his sales in any particular specialty for the past season, nor how those sales compare with the results of former seasons, can not expect to make much progress toward the elevation of his individual business, and without the efforts of individuals any movement on this line by organizations will naturally prove to be failures. In the opinion of the writer, systematic work, orderly arrangement and cleanliness are among the first requirements to be observed by the

grower of plants who feels interested in the elevation of his business, for on system depends his profits, on orderly arrangement and proper display of his stock depend most of his sales, and cleanliness is an essential to the best growth of most plants. A heavy crop of weeds, muddy walks, broken down benches, and a generally unkempt appearance should not be accepted as indications of how busy we are, but rather as evidence that there is a screw loose in the management. This state of affairs, though not so prevalent now as it was a few years ago, is still too much in evidence in many establishments, and deserves a radical change, for if order is nature's first law we who practice "an art which does mend Nature," as Shakespeare tells us, should surely strive to observe that law.

Have a general cleaning up at proper intervals, keep walks, benches and all the surroundings of the houses neat and tidy, arrange the plants in the most attractive manner, and employ help enough to keep them in that condition. It is false economy to worry along with an insufficient force of men, and we all know that the most efficient and reliable help is the cheapest in the end, and in this connection it may be added that so far as my experience has gone, a proper proportion of men to glass is about one man to each six thousand square feet of glass in an average establishment, unless the business includes much outdoor work or jobbing, and in the latter case an extra man or two may be needed during the busy season at least.

A systematic arrangement of the labor should also be made, by appointing certain men to attend to the routine work of watering, ventilating and firing of certain houses (if the size of the place does not warrant the employment of a regular fireman), and these men to be held responsible for the performance of these duties at the right time, for by this method the men become more interested in the welfare of the plants under their immediate control, and will take some pride in keeping them in condition.

But this idea of systematic work is not only applicable to the grower, for even among the retailers the lack of system is sometimes found, and dirty floors, dusty shelves and littered counters are sometimes seen where we had been led to expect æsthetic elegance. By the use of the above term I do not intend to signify velvet carpets, lace curtains and a bell-boy with large gilt buttons, but rather the idea that where choice and delicate flowers are exposed for sale cleanliness should prevail, and some effort be made in the direction of proper display and adornment. The retail florist can be, and really is in some cases, an educator of the public taste, but in order to attain such prominence he must use business methods, and among these are courteous salespeople, careful attention in the selection and packing of even a small order, prompt delivery, and a regular system of book-keeping. A closer observance of these items would doubtless promote the interests of this branch of the trade to such a degree that many outstanding liabilities could be more promptly met, and thus much benefit accrue to the trade in general. But in order to make any of these suggested reforms operative the proprietor of the establishment must take the initiative, and with the adoption of certain regulations the habit of neatness and systematic work can be readily inaugurated among the men.

These brief remarks in reference to a more thorough organization of individual

establishments as a means of elevating our business, bring to mind the fact that there is another agency that we should encourage with the same end in view, namely, our national, state and local organizations. It is unquestionably true that the Society of American Florists has accomplished good in bringing the members of the trade together and stimulating the exchange of ideas, for by no other means could such a representative gathering be brought together, and similar benefits, though in a more restricted degree, have been secured from the various florists' clubs and horticultural societies. These influences should be encouraged, for they all tend toward the spread of knowledge of plants, flowers and gardening, and are thus agencies for the promotion and elevation of our business, and as such should receive our hearty support. A tasty exhibit at a local exhibition is a good card, and while there is not in all cases an immediate increase in trade from this source, yet it is one of the best opportunities for the florist to display his talent and enterprise, and to create a good impression on the public mind. And still another requirement for the advancement of our business is for every member of the trade, whether employer or employed, to secure as good a horticultural education as possible. I believe in a combination of practical experience and theoretical knowledge, with the former predominating, for while we sometimes note actual successes in the trade made by purely theoretical men, yet the weight of evidence is in favor of the man with experience.

One road to improvement in the matter of education will be found in encouraging the reading habit among the men in your employ, and if they decline to subscribe to one or more of the various horticultural periodicals it may prove a good investment for the employer to make a few extra subscriptions each season and distribute the papers among the men.

And in conclusion let me add, that while the present condition of our business is not entirely discouraging, yet it seems that the more general adoption of the three points of (1) *systematic work*, (2) *organization*, and (3) *education* would tend to improve and elevate it, and with this suggestion I leave the subject to the wise consideration of the society.

The discussion was participated in by Messrs. Seidewitz of Maryland, Hammond of New York, Spaulding of Connecticut, and Storm of New Jersey.

This was followed by the exceedingly interesting and instructive essay of Mr. F. Schuyler Matthews of Boston, who also gave practical illustrations by means of a chart and numerous sheets of colored papers, showing many minute variations in what are usually regarded as exactly similar shades of color.

Comparative Colors and Their Relation to Flowers.

BY F. SCHUYLER MATTHEWS, BOSTON.

One of the strongest elements of beauty in nature is her colors. As time goes on the people of our country show an increasing interest in pictures which are full of color. We are past the age when steel engravings were popular, and it is not probable that there will be any revival in this department of the engraver's art.

How far the beauty of color in flowers has exerted an influence in this change from monochromatic to polychromatic

art I am not prepared to say, but I believe flower colors have had more to do with this matter than we are prone to think. It is only within the past twenty years that the florists have put before the eyes of the public the magnificent pure reds of carnations and the glorious magentas of the cinerarias. What influence this must have had on the city people who do not possess garden plots it is not easy to say; but that the florist through his flowers has been a potent factor in nurturing a love of color it is reasonable and wise to believe.

But this growing fondness which we indulge in for color sometimes outstrips our knowledge of its character. We have no reliable nomenclature of color tones, and we resort to nature at once for a color name which scientifically does not exist, as, for instance, peacock blue, cherry red, sulphur yellow, pea green, crushed raspberry and old gold. We go jumping about among natural objects for similitudes in color, and we do not locate our colors in the rainbow tints.

I would like to call your attention therefore to colors as we may find them related to each other in the prismatic condition. I regret that pigment color, all I can refer to directly, is so dreadfully lacking in purity and brilliancy, but at the same time it must be borne in mind that color is color the world over, and there is no color in the prism which cannot be adequately represented by pigment color.

The most remarkable thing about nature's colors, however, is their purity. Flowers possess the next best quality of color to that which we see in the rainbow. I must refer to several splendid flowers which illustrate this truth perfectly: Prince of Orange calendula, Portia carnation, Empress of India nasturtium, Madame Crozy canna, lemon colored marigold (African), purple cineraria, violet blue morning glory and New Cardinal poppy. These flowers show the most extraordinary brilliancy in such colors as orange, pure red, vermilion, pure yellow, pure purple and violet. The pigments of the artist's paint box which go by the same names are not comparable with them. If I were to use bits of petals of different flowers and connect these together in imitation of the prismatic colors I would have no difficulty in finding colors brilliant enough to match the rainbow. The color fire might be gone, but the color purity would remain. A dial with sixteen radiating colors made up of the flower petals could be completed with the exceptions of pure blue and peacock blue and green. These are colors which it would be extremely difficult, if not impossible, to find in Flora's world. I might specify the sixteen hues as follows:

Pure yellow—purple;
Green yellow—magenta;
Pea green—crimson;
Emerald green—pure red;
Peacock blue—scarlet;
Pure blue—pure orange;
Ultramarine blue—yellow orange;
Violet—golden yellow.

The colors as they are printed opposite to each other are what we term complimentary hues, that is they form a full and complete color when mixed together, which we call white.

In bringing this subject before you of color for comparative examination I shall try to show how colors can be recognized in their individuality, and how we can avoid confusion in the use of color terms. It is of course a matter of education in

training the eye so it shall distinguish between tints of similar character; but provided one is not deficient in their color sense, so they are more or less color blind, it is not difficult to present a few simple colors in such a way that one may easily recognize them ever afterward.

Scarlet is a red color which is characterized by a tincture of yellow. The ranunculus poppy gives us splendid scarlets; the New Cardinal poppy, one which I may locate as having come to me from Mr. W. Atlee Burpee, is a scarlet flower with a minimum amount of yellow in its composition, and a most remarkable character of lightness and purity of tone. There is positively no ranunculus poppy which can give us the same color; and indeed, I know of no other flower which will approach it in clearness of hue. I have long since analyzed the color of the Madame Crozy canna, and found it an incomparable scarlet; but the character of the color is entirely different from that which we see in the poppy which I mention; it is heavy and has a surface brightness with no depth all. A very different flower is the King of Tom Thumbs nasturtium; here is a fiery scarlet flower which I cannot copy with any pigment in my paint box; you would smile at the brick dust appearance of my best scarlet vermilion beside the glorious intensity of this nasturtium's petal. A step further in intensity of color and you have the nasturtium Empress of India, a scarlet red of great depth, which I am also powerless to reproduce with my paints.

So much for scarlet; but red in purity of tone it is not; this must be borne in mind. I have referred to the poppy family as possessing some splendid scarlets; I might as well include the nasturtium family, as it is capable of giving us scarlet in all its intensity and paleness. But the difference between the two families as regards red is wide; poppies give us a pure red in a more or less dilute condition, but the nasturtiums are absolutely incapable of producing anything like red in purity of tone. It must not be supposed that the rose nasturtium is an example of pure red even in a qualifying degree; this flower is dilute red scarlet in color tone, so far removed from purity that there is about twenty per cent of yellow in its make-up.

In the balsam and the phlox families there are no scarlet reds, and as far as my knowledge goes nothing which remotely resembles them. The so-called scarlet Phlox Drummondii is a pure red flower with no trace of yellow in its composition. I regret constantly the misuse of the color term scarlet; the seedsmen's catalogues are full of the word, when what is really meant is only a bright red color. I am glad to see that in the Century Dictionary, so recently published, the proper and scientific definition of specific colors is given; the position of the colors in the spectrum is explained, and at once anyone may discover by experiment the individuality of a color of a certain name. As an example of this one may find that scarlet is a red so near the yellow division of spectrum color that it is distinctively a yellow red and not a bright red.

My salmon rose Phlox Drummondii has an ineffably pale pure red pink color with a suspicious yellow inclination; but after careful examination I have been forced to the conclusion that there is not a particle of yellow in the expanse of the dainty petals. What the seedsmen would undoubtedly call rose pink in color would be crimson pink. I have a lovely pure pink flower among my Shirley poppies, but I have never seen a crimson pink or a

pure crimson poppy in any variety of this flower. Crimson is too often a word loosely used; it does not mean dark red, *that* is maroon; it does not mean deep intense red, *that* is pure red perhaps, or a red with some touch of yellow in its composition; but it *does* mean a deep red near the blue division of the spectrum; and consequently crimson must be a blue red. I have crimson zinnias, sweet williams, petunias and silenes, but I have no crimson poppies.

I wish there was time enough for me to say many a good word for the too often despised color called magenta. But I can only say this: Not until the florists discovered the wonderfully deep colored cinerarias and gave them to us in a profusion of magnificent bloom did we understand how magnificent magenta could be. The artist who is a colorist and who could learn nothing more about purple reds at an exhibition of cinerarias would be dead to color influences indeed, and what is more, the florist who exhibited the flower would be proved the greater man as far as his æsthetic sensibilities are concerned. But I am sure that it is not the artists who are prejudiced against magenta. I could prove that by the recitation of half a dozen facts about as many famous artists. It remains, however, for the florist to persevere with his splendid magentas, until he gains the victory over unreasonable prejudice and convinces the public by orchid and cineraria that purple red is a grand and dignified color above the disdain of those who delight in unrefined and flashy scarlet geraniums.

Magenta is the contralto and baritone scale of the music of color; it is too rich and deep when seen in all its purity for any but colorists and lovers of color to understand. I believe the florist has gauged the value of the hue in the presentation of it in his glorious cinerarias, and evidently its rich and uncommon music struck his ear long before it had any effect upon the young ladies who like to paint wild roses and poppies. It is not always the smallest ears and bluest eyes which distinguish the beautiful in manifold nature.

As a representative orange flower I might point to the Prince of Orange calendula. But orange is a color easily recognized by anyone; there is little chance of its being misnamed. It is only the orange reds which are confusing in their variety. There are orange red poppies; the scarlet runner is orange red, so are some of the geraniums and zinnias. Orange vermilion or orange scarlet are two names for the same color, either of which will do very well; but they are not so often used in the seedsmen's catalogue as they should be.

Pure yellow is a color which in its exact tone is not so easily recognized. Sulphur is a pale pure yellow. But sulphur colored flowers are not so very plentiful as the catalogues would persuade us to believe. There is no sulphur yellow among calendulas, phloxes, nasturtiums or gladioli. The buffish tone of the Pearl nasturtium is rather straw color. Wild mustard in its paler tints is much nearer sulphur. The outside of buttercup petals is quite a pure yellow, but the shiny inside surface reflects the color to an intensity which approaches golden yellow. The wild evening primrose is quite a pure yellow flower. Coreopsis is golden yellow and never approaches a pure yellow tone. The sunflower never shows a sulphur yellow, nor is there any rose I know of, not even excepting the

beautiful yellow Scotch rose, which gives us an absolutely pure yellow.

The true green is really what among our pigments in the paint box we call emerald green; this occurs rarely in nature and I cannot cite any instance of it worth mentioning, unless I refer to indirect color effects in spring time landscapes. A green-blue or even a pure blue flower does not exist; one-half of the flowers called blue in the catalogues is not deserving of the name. Such flowers we artists would employ purple paint to copy. I know of no blue aster. Bachelor's buttons are pretty blue, so is wild chicory. But I would be compelled to use ultramarine to truthfully copy either of these flowers. The blue of some of the Colvolvulus minor is charmingly bright and has little purple in its composition. The ultramarine of certain deep hued morning glories is rich and true to the color name.

I am perfectly well aware of the fact that a florist or a seedsman must use color names generically, so to speak; so the blue aster and the yellow rose are admissible speaking of these in a general way; but it seems to me specifically the blue petunia, the sulphur nasturtium, calendula, balsam and phlox; the scarlet phlox and balsam, the sky blue aster, the crimson poppy and the scarlet aster are non-existent. There is no art of the horticulturist which will induce certain flower families to take on any positive color which is new to them. I think I am correct in making this broad assertion. I allude to specific color, and I am sure that the nasturtium is incapable of absolutely pure yellow.

The green petunia which I have raised with great success is a well named flower, although the best I can do is to show a specimen with only seventy per cent of the petal surface green, and this not emerald or true green, but the generic green. No one can possibly object to such a name, nor is there anything wrong in the name black scabiosa. These are both color names which are absolutely true to color effect. But the scarlet balsam has no excuse for itself on any ground, for reasons which I have already stated.

As regards the various tones of pink and red in roses I have only a word to say now. Already I have written much on this subject, which has appeared at different times in the AMERICAN FLORIST. The pinks in roses are generally compounded colors, that is, they are made up of a variety of delicate tints which can only be readily distinguished under the microscope. There are pure pink roses and yellow pink roses. The comparative examination of the petals of roses with some of the annuals which I have just mentioned will locate the color of a certain rose without mistake. The rose glories in deep crimson and in pale crimson tints, but with scarlet it has nothing to do.

The beautiful reds and pinks and yellows of carnations it would take too long to describe here with an approach to justice. I consider the carnation the prophet flower of pure and intense reds. The flower is weak in yellow color, but its pinks are incomparable in brilliancy. The Grace Wilder's color is pure and even; not the best of my Shirley poppies nor any of my phloxes can stand beside it. The Portia's red is beyond the red of any other flower in my garden except it be that of a certain gladiolus.

Regarding the broken tones in flowers, I would like to call attention to several: The Heinemann nasturtium, a golden brown; the Edward Otto nasturtium, a purplish brown; the Cyclobothra flava,

a russet yellow daintily broken in tone. Then there are a number of maroon pink poppies in the ranunculus division, which I take great pride in growing; but I must complain that the seedsmen do not separate these from the swarms of scarlet and rich red flowers which interfere with the æsthetic tones of the maroon pink ones. So much interest was taken in the Louis Boehmer chrysanthemum, particularly with regard to its fine color, that I wonder the seedsmen do not make an effort to group together these odd colored poppies and make it easy for amateur gardeners to become well acquainted with them. The taste for æsthetic color is growing, and the day will come when magentas, toned solferinos, plum purples and purple browns in their more delicate tints will be fully appreciated and admired.

But color is an infinite thing and its consideration here in connection with flowers must be greatly limited. I repeat that flower colors are so far beyond pigment colors in brilliancy, and their variations are so innumerable, that it would take volumes to describe the differences and infinite patience to pursue the subject to a broad and profitable conclusion. We have yet to learn a great deal about color; not even the artist can fathom all its depths; certainly the best study of it is in the flower garden, and we owe to our florists, horticulturists and gardeners a great debt of gratitude for their revelations of the most magnificent colors the world has ever seen. It is not on the artist's canvas, but in the gardener's flower, that the greatest wealth of color may be seen.

The essayist was greeted with applause, and at the conclusion of his paper was given an ovation. Votes of thanks were tendered Messrs. Mathews and Taplin for their papers.

Under the head of the question box the relative advantages of the one judge and three judge system in horticultural exhibitions were presented by Messrs. Rawson and Wood, both favoring the latter system.

Useful commercial cut flowers other than roses, carnations and chrysanthemums was the theme of a question replied to by Mr. Scott of Buffalo, as follows:

Cut Flowers Other Than Roses, Carnations and Chrysanthemums.

[Answered by Wm. Scott.]

This question referred to me is in my thinking, a little ambiguous, but if it means what other flowers are there for the commercial florist to grow then the answer would be simple, but necessarily very lengthy, for it would include all the flowers that are sold in our greenhouses and gardens except the three above mentioned. It can, I believe, be put down as an indisputable fact that the rose and carnation are the most important flowers, both commercially and any other way, but the chrysanthemum I should not place third. It has sprung within ten or twelve years, into great popularity, but its season at the most is short, and prices have taken a great tumble during the past few years. I must most decidedly place the violet in advance of the chrysanthemum as a commercial flower, for the aggregate paid by our patrons during the year is far more than that paid for "mums," however large, gorgeous, and fantastic they may be. So we will have to call the violet the most important, after the rose and carnation. It is certainly true that it would be impossible to

run a retail trade without growing or keeping roses, carnations, and in their season chrysanthemums, but here is a brief list of other flowers used largely in our business. Even if only for variety's sake they must be grown.

First violets, of which I have already spoken. Second, lily of the valley; this little gem is asked for the year around by our best flower buyers, and if you are successful in forcing it and retarding it there cannot be anything yielding a larger percentage of profit. Third, tulips, narcissus and hyacinths; immense quantities of these have been forced during this last fifteen years, perhaps slightly overdone this last three or four years, yet they never can go entirely out of fashion, because they can be had at a relatively cheap price, when roses to make an equal show would cost the purchaser three times the amount. Fourth, *Harrisii* and longiflorum lilies; a continual succession of these can be had from November to July, and are now in a general trade actually indispensable. Fifth, *Lilium lancifolium* in variety and *Lilium auratum* are every summer coming more and more into use, and are now as indispensable in July, August and September as the *Harrisii* are in the earlier months. Sixth, mignonette is a very important crop and a paying one; many thousand feet of glass are devoted to its growth in winter and spring. Seventh, orchids, they may not be considered an absolute necessity to the general florist, but a collection composed of a dozen of the best species and varieties will well pay for the outlay, and where they are grown largely in any establishment there is a steady demand. "A story." Eighth, sweet peas are now forced by many, and in the months of March, April, May and June they are in great demand, and a paying crop.

I will not attempt to enumerate many more, but likely enough I have forgotten more than one prominent and important flower to the retail florist; there is a number of flowers which enter into his business, and which you all know, and for a cheaper grade of custom you have to grow more or less of them. There is the zonal geranium, begonias, sweet alyssum, heliotrope, stevia, eupatorium, ten week stocks, pansies and many others familiar to you all. I had almost forgotten two important plants; the poinsettia with its brilliant bracts is one, in many cities they command a most remunerative price. The other is the old calla lily which most of you can remember as long as you can any plant.

If you are the fortunate possessor of a few acres of good land within driving distance of a large town you can make a comfortable living with a few acres cultivated to flowers. It is the natural and healthy way to exist, and in addition to the flowers you can keep a flock of chickens, cows, pigs, and ducks, some of whom will be producing a crop when you are sleeping.

Mr. John N. May offered a resolution of condolence with the bereaved family of the late treasurer, M. A. Hunt, and suitably expressing the society's appreciation of the deceased, which was adopted by a rising vote. As a further mark of respect for the memory of the late treasurer an adjournment was ordered.

Wednesday Morning Session.

Pittsburg was unanimously selected as the place of meeting for 1895. The nomination of officers resulted in the naming

of the following: For president, Edwin Lonsdale of Philadelphia; Wm. Scott of Buffalo; for vice-president, E. C. Reine-man of Pittsburg; for secretary, Wm. J. Stewart of Boston; for treasurer, H. B. Beatty of Oil City, Pa.

On motion of J. G. Esler of New Jersey the appointment of a committee of three was authorized to report to the next convention a plan for a closer union between the national society and the auxiliary societies. Mr. John H. Taylor then read his essay.

The Best Method of Growing Roses, and the Best Varieties for Present Demands.

BY JOHN H. TAYLOR, BAYSIDE, N. Y.

The growing of roses under glass has been so thoroughly discussed at our conventions in the past that I thought best to treat this subject somewhat broadly, and touch on certain points of culture, past and present, especially relating to the health of the rose.

The tendency of growers during the past few years has been to disregard one of nature's laws, that of rest. All plants require a dormant or semi-dormant period, as is well known to horticulturists; but the system, at present pursued, that of constant forcing, has weakened the constitution of the rose. It is impossible to obtain a healthy cutting from plants whose vitality has been sapped year by year by over forcing or disease.

Plants adapt themselves to changes of climate, treatment and locality, providing this occurs gradually and nature's laws are not transgressed. By judicious selection and propagation a race of plants can be made healthier, more vigorous, and better adapted to the purpose intended. On the other hand, injudicious and over-propagation will, if continued, bring forth a race of weakly and sickly plants incapable of producing or reproducing.

Littlejohn's methods of growing have been discarded for newer, and what is considered, better ones! Undoubtedly for a few years better financial results were obtained, but at a cost to the health and constitution of the plants. The old method was to grow the plants from good wood struck early in the fall, which would by spring produce strong vigorous plants in 6 or 8-inch pots. These would be plunged outside, thoroughly hardened, and brought into the house in August or September. They were then either planted or potted in 10 or 12-inch pots and allowed to flower, giving a fine crop by Oct.

The finest lot of plants I think I have ever seen was at Mr. Haughouts in the month of August, 1883, plunged outside in 8-inch pots. They were *Perle des Jardins*, averaging about 15 inches high with from six to eight strong, well ripened shoots, ready and anxious to flower. The house stood empty, but thoroughly cleaned, and the soil had just been put in the benches.

There are probably few present who have not seen such plants, and remember when Madison, Summit and neighborhood was the Mecca of all rose growers. But this proved too slow and expensive for our advanced ideas, and the constantly increasing competition; so that the present method of planting in June or July, plants struck from our overforced stock, and having had no rest or ripening of the wood, has been generally practiced. The consequence has been a more or less general depreciation in the strength of our plants, and so many diseases attack them that a chemist is required to be constantly on hand.



A HOUSE OF BRIDES PHOTOGRAPHED LAST JANUARY.

MR. JOSEPH HEACOCK'S GREENHOUSES AT WYNCOTE, PHILA., PA.

These facts impressed me several years ago, as I noticed a gradual weakening in the vigor of my plants. I decided not to propagate more than was required for my own use, to use nothing but the best wood, and also to rest my roses during the summer months. The result has been more than satisfactory, as my plants have shown year by year more stamina, and have been less subject to disease. The carnation men have already discovered their error, and a number of growers are now propagating their stock from *unforced* plants. Diseases of all kinds are ever present, either in the shape of fungi or insects, and whenever a plant becomes weakened by improper treatment it is at once attacked. It is so well understood in animal life that a man who disobeys nature's laws succumbs shortly to the ever present disease, and yet we do not hesitate to treat our plants to so weaken their constitution that they are unable to withstand the attacks of their enemies.

Having this object in view, namely, the production and growing of vigorous healthy stock, what are the best methods to pursue?

To strike the cuttings in November and December plants should be carefully grown during the winter, and by March or April should be strong plants in 6-inch pots. They should then be given all the air possible inside or plunged outside, and kept on the dry side, thus giving a slight rest and ripening the wood. Planting can be done in June or July. The plants should be handled so as to get thoroughly rooted in the bed or benches before being allowed to flower. Plants

thus treated should be strong dwarf bushes ready to flower as soon as allowed in the fall. The fall treatment of roses is of the utmost importance, as on that depends success or failure during the winter; for a rose once checked at this period will never recover sufficiently to pay during that season. Temperature at night or day during October and November can not be strictly adhered to, as the weather and judgment of the grower must regulate what he considers best adapted to the welfare of the plant.

Watering must also be very carefully looked after then, more so than at any other season; and it is a good rule to keep the plants a little too dry than too moist. More trouble is caused by careless or overwatering at this period than at any other. In fact the quality of the flower in the early fall should be secondary to the welfare of the plant. As a rule a higher night temperature should be maintained than is conducive to the production of the best flowers. In other words, in September our nights frequently run as high as 70° or over, and the plants should be gradually accustomed to a lower temperature without checking their growth in the two following months. No absolute rule can be laid down, as different seasons require different treatment. As a rule, however, a warm fall will require a higher night temperature than a cold one, owing to smaller amount of artificial heat needed. Once safely in December, the plants, with ordinary care and treatment, should produce good results for the balance of the winter.

The question of beds and benches is

still a mooted one, both systems having their advocates. I am using both, but am not prepared to say which is the better one. With pipes run through the beds in stone ducts the soil in the beds can be kept at any required temperature. From experience I have found 75° about the best temperature. The hybrid teas seem to flower more freely and do not have the tendency to go dormant as when planted in benches. Another method, which is a combination of beds and benches, has given the best results, namely, to board the benches in and have separate pipes underneath for warming the soil, the pipes for heating the house being placed along the sides of the greenhouse, so that the warming of the soil can be done independently of heating the house. The advantage these beds have over benches is that of durability; and I am satisfied as good results can be obtained if properly handled.

The question of carrying roses over one or more years has always been a favorite topic of discussion, and is still an interesting one. It has been my custom always to carry over about half my plants, and my experience has been that the old ones can be more depended on to do well than the young plants.

The method pursued is to withhold water gradually, beginning the latter part of June, until the beds are quite dry; after that the house must be carefully watched to prevent the wood from shriveling; syringing should be done daily, and in very warm weather twice a day. Should signs of shriveling appear a slight watering must be given, but not enough to start the buds. By the middle of

August the plants will be ready to prune. All but the best wood should be removed, and the other shortened down to from six to eight inches from the bed. A thorough watering should be given as soon as the cuts are healed, then remove all loose soil and give mulching of half soil and manure. Air, night and day, should be given until the foliage appears hard and dark green. I have a house of Brides treated this way which has been running five years, and is stronger and healthier this year than ever. The base of the stems will measure from one to two inches in diameter. I shall run it another year. Plants treated in this way have their first crop in October, which is as early as good flowers can be obtained. This treatment gives the plant a period of activity and one of rest. The soil by being dried is sweetened, and the fresh soil added gives all the necessary stimulus.

Like all other horticultural operations, great care and judgment is required from the time of drying until the plants are once more growing vigorously. Too rapid drying or too rapid a start may cause absolute failure.

The following figures taken from the production of 2,017 plants of Brides show the results of the above system:

1st season, 1890-91, flowers cut	46,575
2d " 1891-92, " "	77,231
3d " 1892-93, " "	74,069
4th " 1893-94, " "	94,409

Total for four years 292,284
Average per year 73,071

The fourth year shows double the cut of the first year with young plants.

In considering the best varieties to grow several questions must be considered.

The market requires as perfect a flower as can be produced; in fact, competition is so great that only the best can be sold to advantage. Color, size, foliage and keeping qualities all have to be considered. Again, from a producer's standpoint a rose must be vigorous, floriferous and able to stand handling and transporting. So far very few roses among the thousands introduced possess this quality, although great advances have been made during the past years, and judging from the past few years even better varieties for forcing will soon be forthcoming. In fact a great field is open to the hybridizer in this country.

The varieties to be had at present are the following: American Beauty, Svn. Mme. Ferd Jamain. This rose is probably the finest so far introduced.

The Bride is the best white.

Bridesmaid has superseded C. Mcrmet, and is the most satisfactory pink rose yet introduced.

Meteor splendid in color but lacking in fragrance, and in cloudy weather has a tendency to come dark in color and deformed in shape.

A good red rose is badly needed.

Perle des Jardins is still the best yellow, and in some localities one of the best of all teas.

Mme. Hoste is remarkably prolific, and when well grown resembles in shape, size and color Cornelia Cook. A few can be profitably grown.

Mme. Cusin has been badly hurt by the Bridesmaid, but still can be considered as a profitable rose to grow.

Mme. de Watteville, although a beautiful flower and very productive, has proved such a poor keeper in a warm room that the public no longer ask for it.

Kaiserin Augusta Victoria has proved for winter work a great disappointment, as it has a tendency to come green and

keep poorly. In summer it is the best white introduced.

Mme. Testout is still in doubt. The color is beautiful, but it is a poor keeper and shipper.

Papa Gontier has been badly hurt by Meteor, and owing to its short season is now no longer profitable to grow.

Mrs. Whitney is still to be tested. It promises well but lacks substance. A great future should be in store for this class, as it combines fragrance, color and productiveness.

La France, except for summer work, can no longer be classed with the other good pinks.

For all purposes the following are probably the best roses to grow:

Pink,.....	Bridesmaid.
White,.....	The Bride.
Red,.....	Meteor.
Yellow,.....	Perle des Jardins.
Deep pink,.....	American Beauty.

It would appear advisable to select the best one in each color than to grow several shades of any color. A still further advance towards more perfect flowers might be obtained by making a specialty of one or more roses, that owing to soil, treatment, or other causes, appear to flourish best in any one locality. For instance, Mr. Nash, of Clifton, is known principally as a Beauty grower; Mr. Pierson, of Scarborough, as a noted grower of Meteors; Mr. E. Asmus, of Hoboken, as a very successful grower of Mme. Cusins, etc.

This list might be considerable lengthened, but I have probably exhausted your patience even on the subject of the queen of flowers.

After discussion by Messrs. Tesson, May, Simpson and Gasser Mr. Samuel Goldring, in the absence of Mr. Mathews, read his essay on "Orchids," as follows:

Orchids from a Commercial Point of View.

BY WM. MATHEWS, UTICA, N. Y.

When asked by our worthy secretary to prepare an essay on orchids from a commercial point of view the question flashed through my mind why so many people engaged in floriculture made exceptions to the orchid, and at the same time attempted to grow so many trashy things that are much harder to grow and dispose of than the product of the orchids that are suitable for commerce. Go east or west, you can most generally find many poorly grown marantas, dracenas, crotons, etc., and a host of other things that are of no beauty or utility, unless very well grown, and to grow them well requires both skill and perseverance. Generally speaking, should a gardener ask the proprietor of many of the beautiful conservatories that can be found in almost every state of the union for a line of hothouse and greenhouse plants, no matter if they cost double the price of good orchids, there is no refusal. The plants are obtained and many of them are often useless and unfit for the position in which they are placed, and are much harder to bring to a state of perfection than a large percentage of the orchid family would be. Nevertheless, there seems to hang around the name of orchid a warning not to touch them, and a feeling pervades many otherwise good gardeners that orchids are very troublesome and hard to grow, when in reality with a minimum amount of care they are the most reliable and easily grown stock that is embraced in the whole category of floriculture.

Some orchidists will persist in saying

that orchids for commercial purposes can be counted on the fingers of one's hand. To this dogma I emphatically say "No." Should a grower confine himself to five species I am certain that in a few seasons he would find the grower who grew a good range of species and varieties would soon outdo him. The beauty of orchid flowers, I feel free to say, is much increased by grouping several varieties together; at the same time I do not decry a display of one variety, whether cattleya, odontoglossum or phalaenopsis. I do not know of anything that appeals to a really artistic taste so much as a well arranged stage of orchids, intermixed with fine ferns, etc. Unfortunately many of the most beautiful orchids have very ordinary foliage; if the foliage of the orchid were as ornate as their bloom then they would be grand indeed.

Commercially the orchid has scarcely gotten a foothold in this country yet, but the time I am sure is not far distant when they will stand commercially in America in as good a ratio as in European countries, and there will then be few large decorative events where the orchid will not be present, not to the injury of other flowers, but to their benefit. If in a decoration one mantel is ordered banked with orchids the other one must necessarily be more gorgeously banked with other flowers by way of comparison. Then again, if you have a commercial stock of orchids, you have always something to help you out. There are times, just like at the present writing, when your rose stocks "off crop," carnations scarce; then you can fill the order with orchids, much to the pleasure of your customer and profit to yourself. There is another good feature, if you do not want to use the bloom you have out to-day they will be just as good one to three weeks hence. So it is very rarely you lose any orchid bloom even when you are consigning hundreds of once beautiful roses to the waste barrel.

I have always found that when roses are very plentiful and cheap nobody wants them. What buyers there are in such times are looking around for some "tidbits." This is another instance where the orchids will come into play to the pleasure and satisfaction of both florist and customer.

Now I have no doubt that you will consider it a bold assertion when I say that the orchid gives me less trouble than any other branch of floriculture I am engaged in. In our rose houses we kept fire till about the 5th of June. In our orchid houses the fires were let out about the 15th of April, and not started afterwards, removing a few plants, such as phalaenopsis, a few dendrobis and things that required strong heat, to a palm house, where a gentle fire is kept during the summer. Experience has taught me that there are more orchids killed by coddling in a close atmosphere than by anything else. There is no plant that delights more in a fresh and pure atmosphere. I never think of closing ventilators, top or bottom, on my cattleya houses after about the 15th of April, according to season as to date, even if the temperature should go down to 48° or 50° in the early morning, unless a strong cold wind should come up, then the ventilators are shut to prevent a cold biting draft going through the houses.

I suppose, commercially speaking, the grand and main point at issue is the "great and almighty dollar" that is unfortunately so dear to the hearts of most of us, even if we are engaged in one of the most pleasurable occupations on

earth. I will confess to the fact that the outlay for a large quantity of orchids will be large in comparison with roses, carnations, etc. At the same time it is a fact that a large quantity of orchids can be bought for a little money, but this grade of stock would be unprofitable and disappointing, for, although it is only a few years that the bloom of orchids have been on sale in public stores, yet it is remarkable how discriminating and esthetic are the tastes of American ladies in the purchase of those charming flowers. I have experienced this so much that I have concluded that a poor form or color of cattleya, odontoglossum, etc., shall no longer find a place in my collection, the order being that such stock be at once relegated to the waste heap. In every importation there will be a certain percentage of such useless varieties which would be dear in a gift. In orchids as in all other commodities those of a good quality are the cheaper, and I do not hesitate to say that a collection of orchids, well selected and good healthy stock, will prove as lucrative as any other branch of floriculture, but I would strongly persuade intending purchasers to buy good strong stock, whether from the woods, or already established plants. I am confident that at present prices no one need fear purchasing established stock. I think it will be cheaper for them if the labor, anxiety and other contingencies are well considered. They will bring a quicker return than stuff from the woods with all the risks, and there are many. Thousands are imported yearly that have either been superheated or sea washed. If you should get a dose or two of this kind of medicine, as I have, it will tend to dampen the ardor for orchid culture, especially if it should happen at the commencement of your orchid career. I have bought cattleyas at fifty cents dry. I have bought the same varieties established at \$5. Those at \$5 brought the price of plant back and \$2.50 profit in six months. The fifty-cent one was not at any time in two years worth more than a dollar, flower and all included. So I would strongly advise anyone commencing orchid culture to get plants of the best quality obtainable, even if he did not get so many. I have lately had communications from collectors, and they say that it is impossible that orchids can be collected and sold as cheaply as at the present time, as they have to climb much higher up the mountains, which means additional expense.

It is the opinion of lots of gardeners that orchids soon get worn out. That is very true, and we see the same condition in all branches of plant culture. Too often has it been my experience to see a once choice lot of orchids either steaming or frying in some out of the way corner without ever having been treated even to a pot washing. I have seen what were once fine specimens of cattleyas and vandas standing in the same pots and position year after year, potting material rotten, plants covered with scale, and those who have charge of such stock are the very fellows that cry "wolf" and warn many intending purchasers to go light on orchids, and confidently advise and declare that the orchid is a hard one. I have a house of cattleyas that contains a number of plants once owned by the venerable Isaac Buchanan of Astoria, purchased about 1883, and which doubtless had been in his possession a number of years previously. Those plants are in perfectly healthy condition, and bear a fine crop of bloom annually. I have also plants from the late Dr. Wolcott's collec-

tion, Mrs. Morgan's and others that have been in cultivation about 25 years. Those plants are to-day in fine, healthy condition. I think these few remarks are enough to show that orchids, if well established and kept in clean healthy condition, are as safe and paying a stock as one can invest in; but improperly cared for and carelessly and negligently handled, they, like all kinds of choice plants (excepting none) will prove a losing investment; but I do claim that more of the orchid family will stand abuse and improper culture better than any other kind of stock I am acquainted with.

In conclusion I would say that it is a lamentable thing to see so many wealthy people living in luxurious homes surrounded by fine plant houses, the latter costing from \$5,000 to \$10,000, which do not contain \$500 worth of choice plants of any kind. Often this is the fault of the man in charge, who is either too lazy or too ignorant to care for anything better than a few trashy common things, which, by the way, should be furnished by the local florist or plantsman. I have reference to such things as geraniums, coleus, etc., etc. If we had better gardeners we should soon see more houses of choice stock that would be immensely gratifying to the proprietors of such places and at the same time create a demand, and encouragement would spring up all around that would be both beneficial and profitable to the trade, and a credit to this glorious country.

It was discussed by Messrs. Lonsdale, Goldring and Anthony.

Wednesday Afternoon Session.

The afternoon session opened with the reading of the essay on "Cannas" by Mr. J. T. Temple of Davenport, Iowa, which was followed by a very interesting talk by Mr. Grove P. Rawson of Elmira, N. Y., on "The evolution of the chrysanthemum."

On conclusion of the address the appreciation of the members was expressed by a rising vote of thanks. This was followed by Mr. Tricker's paper on "Aquatics" as follows:

Aquatics.

BY WM. TRICKER, CLIFTON, N. J.

This is a progressive age, and as floriculture is making rapid strides it behooves every florist to keep abreast of the times. During the past decade much has been accomplished in our profession; many additions have been made to the list of useful plants for general decoration and for cut flowers; the increasing interest in the cultivation of the rose and carnation has resulted in the formation of a carnation society, and later, a rose society; but no one dreamt ten years ago there would be a chrysanthemum society. The introduction of the chrysanthemum as a florist's flower was an innovation, and many considered it only fit for Chinese and Japs; but the stately Queen of Autumn is with us still in all her splendor. More can be said of the wondrous increase in the demand for palms, ferns, ornamental and flowering plants for decoration, and what shall we say of the change in our public parks, gardens, and cemeteries; the millions of plants grown annually for their embellishment, and for private gardens, from those of the millionaire to the small plot of the mechanic, how many millions more? This is a vast field for the florist, and floriculture knows no limit.

Aquatic gardening is apparently in its infancy, though aquatics are as old as the hills, but this class of plants now commands our attention. Aquatics are associated with the history of the ancient Egyptians, where mention is first made of the Egyptian lotus, *Nelumbium speciosum*; the worship of which was common with them. Sculptural representations of it are found among the ruins of Egyptian temples. It was not only known to the ancient Egyptians, but was common in olden times in East and West India, China, Japan, Persia, and Asiatic Russia. The Chinese have ever held it in sacred regard, but that character was not limited merely to ornamental purposes; the roots (or tubers) were used and still are as an article of diet. The American lotus, *Nelumbium luteum*, was well known to the Indians as an article of diet, but has of late been disregarded. This is a distinct species and must not be confounded with the Egyptian lotus nor Pharaoh's locust, with which we have been so familiar this year.

Nymphæas are also widely diffused, and are found in all parts of the world, each different country possessing species peculiarly its own. But of all the nymphæas no species can compare with *Victoria regia*, and although many species were known in England prior to the introduction of the latter, the cultivation of aquatics received a stimulus thereby, which extended to the United States, the effect of which is felt by us this day. The discovery of this wonderful plant by Mr. Bridges, an English traveler, in 1845, created such an enthusiasm as nearly cost him his life. His first impulse was to obtain specimens of the flower, and he would have attempted to enter the water, but was warned by the Indians who accompanied him that the stream swarmed with alligators; happily for him and us he lived to express his wondrous amazement of his discovery; he successfully carried to England the seed that produced the first plant, which became so famous. This was in the year 1849, when a tank was built expressly for the new plant in the great conservatory at Chatsworth, under the management of Mr. Paxton.

It is interesting to note that there were progressive florists in the United States at this date, although neither rapid transit nor ocean greyhounds were established, yet the result of such an achievement in floriculture was not only known here, but a similar tank and greenhouse were constructed, and the *Victoria regia* was successfully grown by Mr. Caleb Cope, Philadelphia, in the year 1851. Considering the time when the *Victoria* flowered in England—November, 1849—there was little time lost, and this act exhibited an enthusiasm and enterprise worthy of our day. The foregoing is the earliest record of aquatic gardening in this country. With the *Victoria* was also introduced *Nelumbium speciosum*.

The construction of the *Victoria* tank and house was such as to stimulate natural conditions. The warm water and tropical atmosphere were not enough; the water had to be kept in motion; a water wheel was constructed for this purpose, and a stream of water constantly flowed, which was conducted into a cistern or reservoir in the middle of the vegetable garden, which was used for watering in those days, before city water hydrants and hose were thought of. In this cistern the *Nelumbium speciosum* was planted and was a great success. After this small aquariums and ponds were made out of doors by differ-

ent people and aquatics were more or less grown.

It is sad to relate of this enterprising gentleman, as of many others since, that he died very shortly after this event, and that the glory and pride of this horticultural establishment thereafter departed. On this historical spot stands the Forrest Home for Aged Actors.

Yet another, a pleasing feature in connection with this first Victoria in the United States, and which makes this event most interesting. We have to-day at the head of the Department of Parks in the capital of the Union, a man of singular ability, experience and judgment, who was an employe in the gardens of Mr. Caleb Cope when the first Victoria and lotus were grown. I refer to Mr. Geo. H. Brown.

The state of Massachusetts appears to have been the next in order of date where the cultivation of the Victoria regia was engaged in; the earliest grower in that state being John Fisk Allen, of Salem, who on the 18th of June, 1883, exhibited a leaf of Victoria regia, four feet in diameter; on the 16th of July, one five and a half feet, and on the 4th of August, a flower, all at the rooms of the Mass. Hort. Society. Daniel Waldo Lincoln, of Worcester, was the next cultivator in Mass.; he had the Victoria soon after Mr. Allen, but the exact date is not known. The Victoria still led the way, and in the year 1856 it was grown in Cincinnati by Mr. George Pentland, gardener to Nicholas Longworth, Esq., but its cultivation did not become general, and would not now under such expensive modes of culture.

Attempts to cultivate *Nelumbium speciosum* are reported prior to Mr. Cope's venture. In 1839 it is stated by Hovey that *Nelumbium speciosum* was naturalized near Philadelphia, blooming abundantly all summer, and growing in a shallow ditch where it covered the surface of the water with its broad peltate leaves and strong flower buds, which expanded in all the splendor of oriental magnificence. The report was discredited by the Boston boys, who contended it was nothing more than the American lotus. However, the archives of the Pennsylvania Horticultural Society contain the following report (if not destroyed by fire): At the meeting held February 1840, the committee on distribution of seeds submitted their report, from which it appears two parcels of seed had been received; one from Calcutta, presented in 1838 by Dyllwyn Parrish, contained among other things seed of *Nelumbium speciosum* and *N. album*, and Mr. R. Buist succeeded in raising plants of these species, which were considered very rare in this country, if indeed they existed except from these Calcutta seeds.

From 1856 to 1876, very little was done in the way of aquatic gardening, but at the latter date Philadelphia was again to the front, and a plant of Victoria regia was a novel and attractive feature of the Centennial Exposition. About the year 1880, Mr. Sturtevant reintroduced *Nelumbium speciosum*, when it was planted in a pond near Bordentown, N. J. Here was the most successful attempt to naturalize this oriental species, which has astonished both the new and the old world. Mr. Sturtevant also succeeded in introducing several species of nymphæa, victoria and a full line of aquatic plants which were distributed to all parts of the United States.

About the same time Mr. Samuel Henshaw, of West Brighton, Staten Island,

established *Nelumbium speciosum* from seed sent from Japan by Dr. Hogg. In 1880 Benjamin Grey, of Malden, exhibited before the Mass. Hort. Society, *Nymphæa Devoniensis*, *N. cœrulea* and *N. dentata*, receiving an award therefor.

In 1883 Hovey & Co. and Mr. Grey exhibited nymphæa and in 1884 N. S. Simpkins, of Yarmouthport, entered the field.

In 1886 aquatics were introduced into Central Park, New York. *Nelumbium speciosum* is there naturalized and is one of the most striking features of the park.

In 1888 L. W. Goodell appeared on the scene with a tank of aquatic plants at the annual exhibition of the Mass. Hort. Society. A year later H. H. Hunnewell exhibited a collection.

Amateurs now commenced the cultivation of aquatics, and choice specimens were to be seen at Newport and in the neighborhood of Boston, Chicago and other cities. Mr. Chadwick, president of Chicago Horticultural Society, grew aquatics, which undoubtedly led to the introduction of these plants into Lincoln Park in 1888, then under the able management of Supt. J. A. Pettigrew. The cultivation of Victoria regia, as well as all available nymphæas at that day has given Chicago and her parks a world-wide reputation. Other parks and gardens have introduced aquatics with surprising results, and to-day they are the most popular plants. The Victoria has been grown in the Botanic Garden, Washington, D. C., and other southern states without artificial heat after planted out, and probably the first instance of such is recorded by the Wilmington, N. C., *Messenger*, when Dr. Bahnsen, after several attempts, succeeded in flowering the Victoria in the open at Salem, N. C. In most cases it has been only a partial success when attempted to be grown without artificial heat; it must necessarily be late in the season before planting out or run the risk of losing all (as is the case this summer at Washington). In many instances where steam power is used in factory, pump or for other purposes, the waste steam can be utilized for the heating of the tank, but the safest and best method is to have an independent heating system.

The introduction of Victorias into our gardens and parks opened up a wide field for the general cultivation of tropical nymphæas, which has now become general in most of our public parks; also by a large proportion of the wealthier class who own and maintain beautiful grounds. A few enthusiastic amateurs who grew aquatics for pleasure and recreation have done more for the advancement of this now popular class of plants than all the public institutions in the country, and it may safely be said that in no other country can such aquatic gardening be seen at the present day as in the United States.

In England, where every known variety finds a home, few, if any, growers have ventured to cultivate the tender nymphæas save in aquatic houses; hence it is very difficult to compare the same or to know the species by description of plants grown under glass with less light and solar heat, as given. The plants here are more vigorous, have more substance, and the color of the flowers and foliage is intensified.

Aquatics attracted the attention of foreign visitors at Chicago last summer, as well as many other visitors, and many received an object lesson which will be productive of good results.

It is very noticeable that, from very early date, in this as in all branches of horticulture, the true cultivator desired

to improve, if possible, original species, and as a result the first hybrid nymphæa was effected by Mr. Paxton, gardener to the Duke of Devonshire, at Chatsworth, England, in 1850. After it came *N. Kewensis*.

The first hybrid raised in this country originated with Mr. E. D. Sturtevant, and was named *N. Sturtevantii*; it is a flower of unsurpassed merit. M. B. Latour-Marliac surprised the world with his no less wonderful productions, which were exhibited at the Universal Exhibition, Paris, in 1889. These have gained a world-wide reputation, and have given an impetus to the general cultivation of aquatics, especially of hardy nymphæas in Europe and largely in the United States.

Among growers in the United States several natural hybrids have been effected by insects, which work is likely to be repeated where aquatics are grown in large ponds. One of the best selections of such is *Nymphæa odorata Caroliniana*. I had the privilege last year of presenting before the public at Chicago some hybrids which were the progeny of carefully selected parents. These are quite distinct and desirable varieties.

This assembly represents all the different phases of floriculture, cut flower and commission men, plant growers, wholesale and retail, in all branches. There is a growing interest in floriculture. Parks and gardens are public factors in this line and florists must grow various kinds of plants to meet the ever increasing demand for the embellishment of the home, the flower garden, parks and cemeteries; and swamps, bogs, ponds, now unsightly and in some instances nuisances, are destined ere long to become veritable Edens. The time is come when people not possessing a natural piece of water conclude they must have some kind of a water garden, and artificial ponds, tanks, basins are made to accommodate these charming and interesting water nymphs. This particular flora is represented at the present time by about fifty species, collected from all parts of the globe, and hybrids; also the Indian, Chinese and other lotus, and innumerable other aquatic plants.

Among the hardy plants are classed all nelumbiums, nymphæas, including the native species *N. odorata*, *N. o. gigantea*, *N. o. Caroliniana*, *N. o. rosea*, *N. tuberosa* and *N. t. rosea*; also *N. alba*, *N. a. candidissima*, *N. candida*, *N. pygmaea*, *N. Marliacea rosea*, *N. M. albidia*, *N. M. carnea*, *N. M. chromatella*, *N. Laydekeri rosea*, *N. odorata sulphurea*, *N. helvola*. These are all perfectly hardy, and once established take care of themselves as do the native species. They embrace the soft and delicate shades in color from pure white, yellow, pink, deep rose, and produce charming scenery with their pleasing foliage and enchanting flowers, associated with numerous water loving plants as iris, spiræa, variegated rushes, acorus, reeds, arundo, bamboo, typha, sagittaria, hibiscus, ornamental grasses, etc. But we must not omit the most gorgeous varieties of water lilies from the tropics, the pale to deep blue, or royal purple, the carmine and crimson. These are as easy to grow in the open in summer as is a coleus, with unquestionably greater results. The water garden is not complete without the Victoria regia, but at present this will not be extensively grown, though with a nominal outlay, or where a tank can be heated by the greenhouse plant, Victoria will be a wonderful attraction, and business men know what an attraction is worth.

In Mr. Washburne's absence his paper on violets was read by Mr. O'Mara.

Successful Violet Culture.

BY ANDREW WASHBURN, BLOOMINGTON, ILL.

This subject, of so much interest and importance to the members of this society, having been assigned to me for a reply, I have attempted with some hesitancy its consideration, mainly for the reason that others who grow violets successfully advocate quite different methods; therefore I shall speak only of the way in which we have found success.

We propagate our plants by a division of the old stool, not later than the middle of February, using only vigorous offshoots and discarding all plants having large and woody like stems; put in 2-inch pots, and grow in a cool house under the same conditions we give the flowering plants (which will be named later) and when well rooted remove to cold frames, there to become hardened and ready to plant in the field as early in April as possible.

We plant in the field in rows fifteen inches apart each way in good rich soil, and give frequent cultivation with the wheel hoe. During the summer the plants are kept free from weeds and all thin runners removed, care being taken not to remove the new growing crowns, so that by fall there should be enough bud producing crowns around the original plant to make plants from five to eight inches in diameter. Violets should be planted on well drained land, and at no time should be allowed to flag for want of moisture, or their vitality will be impaired and the plants become an easy prey to disease. We have found it necessary during our past dry summers to irrigate our plants, and to this we attribute largely our success.

The plants should be carefully lifted in September before danger of heavy frosts, care being taken that their roots be broken and exposed as little as possible, and planted in the houses in about six inches of good soil. This soil we prepare several months before it is wanted for use, and is composed of good loam and well rotted manure from the stables. After setting the plants should be thoroughly watered and for several days frequently syringed. At this time a light shading on the glass will be beneficial. We have sometimes used a clay wash which will be removed by the first good rain.

We have had the best success in houses about ten feet wide, running east and west with a wall in the center and tables on each side, built so as to bring the plants as near the glass as possible, and with provision for ample ventilation. The night temperature should be kept as near as may be at 40° to 45°, with a day temperature of from 60° to 70°. Higher temperature will lessen the formation of buds and encourage a growth of foliage. In cold weather much care should be exercised in watering, and the foliage should only be wet in the morning of clear sunny days; at other times, if needed, water only the ground between the plants. During the flowering season the plants should be kept free from runners, and all leaves removed that have passed their usefulness.

By this method of culture our plants have given an average of thirty to forty good flowers from October to March.

Of violet disease I am unable to speak, as we have never had it. Man in vigorous health is not susceptible to disease; good

sanitary conditions are necessary to good health, and as with man so with plants, they will respond to like conditions, and given an abundance of pure air, water, cleanliness and suitable cultural methods may we not hope to escape violet disease and still have success in violet culture?

Profitable Winter Blooming Plants.

[Answered by W. K. Harris.]

The question assigned to me to answer is "Profitable winter blooming plants." The question is a broad one, and gives no specific meaning. I suppose the inquirer meant plants grown in pots for the purpose of decorating conservatories, windows and other places on festive occasions. The word "profitable," in this connection, means that plants can be disposed of for more than the cost of production; or to obtain for them how much more, is a question for each individual to decide for himself. I desire more than some of my brethren, and having my desire gratified, I am enabled to meet my obligations more promptly than many of my fellow craftsmen.

From my standpoint of profit, there are but few varieties of flowering plants in pots that will pay to grow, and they must be grown in limited quantities. This branch of our business is on the wane. The demand has been growing less year after year for the past ten or twelve years. There was more demand fifteen or twenty years ago than there is to-day for winter blooming plants in pots. Under the cool shadows of such facts there is but little encouragement to foster or develop nature's beauty in form of blooming plants in pots:

To brighten weary winter's gloom,
And to scent its cold breath with the
fragrance of June.

The scene of this gloomy picture from one branch of our business lies in Philadelphia, the place where I have watched and catered to this line of horticulture for the past twenty-seven years. (My remarks refer to this locality only, not being acquainted with the demands of other markets.) I have grown nearly all of the popular plants of the day, and have introduced many novelties with some success, and many failures. I will not attempt to name or enumerate the many varieties of plants I have grown in the past, as I do not wish to take up too much of your time, nor to wander so far from the question, although it might be interesting to some.

The following, I think, will be more or less profitable to grow. I will open the list with chrysanthemums, as the festive season opens with the advent of her queenly beauty. They are wanted in large quantities, but not as many as former years. Poinsettia and stevia are both good in limited quantities for Christmas. Carnations, in variety, are wanted, but do not grow them unless you can produce good plants in 6-inch pots full of buds and bloom for fifteen or twenty cents each; I can not. Begonia incarnata robusta is the finest of all begonias when well done for the holidays. Begonia rubra is a fine pot plant when well grown. Cyclamens and primulas are very popular, but the former require some skill and much care to grow. Liliun Harrisii is in fair demand from Christmas to Easter. Azalea indica is the most popular of all winter blooming plants in pots from December to May. Genista canariensis and racemosa in small quantities from the 1st of February to Easter. Ericas or heather, hyemalis, Wilmoreana and gracilis are

the best of this extensive class of plants. Cineraria hybrida is always wanted in goodly numbers. They make a big show on the florist's counter, but a very small one on the grower's ledger. Paris daisy (Chrysanthemum frutescens), is quite a favorite all winter. Mahernia odorata is admired for its fragrance, or its vulgar name "honey-bell," I know not which. Mignonette, heliotrope, violets, pansies, English primroses, hyacinths and narcissus are all wanted in limited quantities in the latter part of winter and early spring; but the price is so low for them, it is a question to me whether they are worth bothering with. Some years ago there was a good demand for this class of plants at fair prices, but they no longer seem to please the masses.

The above is about all I can think of that would pay to grow in any considerable quantities, although there are many other flowering plants that could be disposed of in moderate numbers, such as fibonias, linums, and the many varieties of winter flowering begonias, etc. In fact, any plant that is pretty and showy will find some admirers, but not enough to make it an object of profit. We can not give correct advice to a grower what he should grow. One man may be able to grow a plant quicker and better than another can; therefore he could grow it cheaper, or make more money at the same price than his competitor. Hence the importance of self reliance upon self judgment. And again, I have ever found, he that is always giving advice himself is most in need of that which he parts with so freely. One thought more, Mr. President, and I am done.—

Nature, like friends, will help the strong,
Neither has much time for the weak, in
life's busy throng;

So work, and on yourself depend!
Then nature kind will make yourself
your dearest friend.

Thursday Morning Session.

ELECTION OF OFFICERS.

The election of officers resulted in the election of Mr. Edwin Lonsdale for president; E. C. Reineman, vice-president; W. J. Stewart, secretary; H. B. Beatty, treasurer. The ballot for president stood: Lonsdale 135 and Scott 86. As soon as the ballot was announced Mr. Scott moved that the election be made unanimous, which was done. In response to a call for a speech Mr. Lonsdale said he had not anticipated such a weighty foe as Mr. Scott, and when he found that gentleman was in the field he considered his own election so doubtful that he had not prepared any speech of importance. Mr. Scott, in response to a call, said he had yielded to the solicitation of others in becoming a candidate, and when he found the "Brave old Duke" was in the hands of his friends he was with difficulty kept from withdrawing. He added that in electing Mr. Lonsdale the society had selected one of the most worthy and amiable men in the country, and one who would honor the office. The friendliness of the contest for presidential honors was well illustrated by the charming sight presented on Wednesday afternoon of the two candidates promouading up the avenue arm in arm.

The election of vice-president, secretary and treasurer was by unanimous vote, each officer-elect responding in a few words of thanks for the honor conferred.

Mr. Simpson then read his essay as follows:

Fertilizers and Their Application.

BY MR. ROBT. SIMPSON, CROMWELL, CONN.

I must ask you to be as patient as possible this morning while you listen to my very prosaic remarks. Devotees of the rose, the orchid, the chrysanthemum and the violet have charmed us as they have descanted on the beauty or sentiment of their favorite flowers, but you will all agree with me that my subject is not one which lends itself naturally to poetic utterance. The question of fertilizers, however, is one that interests every grower of plants and flowers, and if I cannot treat the subject from the standpoint of the chemist as well as that of a grower I can at least relate a little of my own experience.

According to my observations a great many growers attach too little importance to the quality of the soil, especially for roses, thinking to make up for any deficiency by a liberal application of manure. But can the necessary elements be supplied in this way? I should certainly answer in the negative. If it were possible to get a soil sufficiently rich in all that is necessary for the proper development and sustenance of our greenhouse plants, without any addition of fertilizers, I would be only too glad to use it. Few of us, however, are fortunate enough to possess such a soil; one of the greatest mistakes, however, that a florist can make is to put up a range of greenhouses where the soil in the immediate vicinity is unsuited for greenhouse purposes. Nothing in the shape of large glass and model greenhouses, or even special treatment, can compensate for poor soil. The question then is, what can be considered the best soil for such crops as roses, carnations, chrysanthemums, etc? My choice would be two inches from the top of an old rich pasture, where the soil is inclined to be a heavy loam and the land is low enough to catch the deposit from the continual washings, yet not low enough to be sour and wet; this cut in the spring as early as the land is dry and laid up with good cow manure of the previous season in thin layers in the proportion of four parts soil to one of manure; if the soil is naturally very rich less manure will answer, and if very poor a larger quantity should be used. Mr. Hunt, in his book, "How to grow cut flowers," strongly condemns the use of cow manure where the animals have been fed with slops from distilleries, claiming it to be as fatal to plants as the refined product is to man; if such is the case, beware! At any rate that from grain fed animals is so much stronger and better that whenever possible it should be used.

Horse manure I would never mix with the soil for roses under any consideration; it may when thoroughly decomposed be used as a top dressing, but its action in the soil is often pernicious in the extreme. I have seen it fill the beds so full of white fungus, resembling mushroom spawn, until the whole thing was matted together and smelled abominably; at other times toadstools would spring up so rank that there was danger of lifting the plants bodily out of the bench; it is needless to say plants cannot thrive under such conditions.

Sheep manure I consider one of the very best fertilizers we have, used either in liquid form or mixed with the soil at the time of planting; but I have never dared to mix it in the compost heap, for too much of it in one place is certain death to all vegetable life. I know of one large grower who declares he will never use another shovelful of it as long as the world stands;

upon enquiring how much he mixed with his soil I found he used somewhere about one part sheep manure and three parts soil. You won't be surprised his plants had the jaundice. We have proof of the powerfulness of sheep manure as a fertilizer if we look at the crops of grain produced by land that has been pastured with sheep. I know of nothing in the way of animal manure that can equal it as a crop producer, but we must use it cautiously; 200 pounds to a 100-foot house of roses or carnations will not be too much if it is pulverized and evenly mixed with the soil, or the same amount can be used as a top dressing. Having secured good soil and good manure and planted therein good plants the most natural thing in the world is that they should grow, providing of course that all other conditions are favorable.

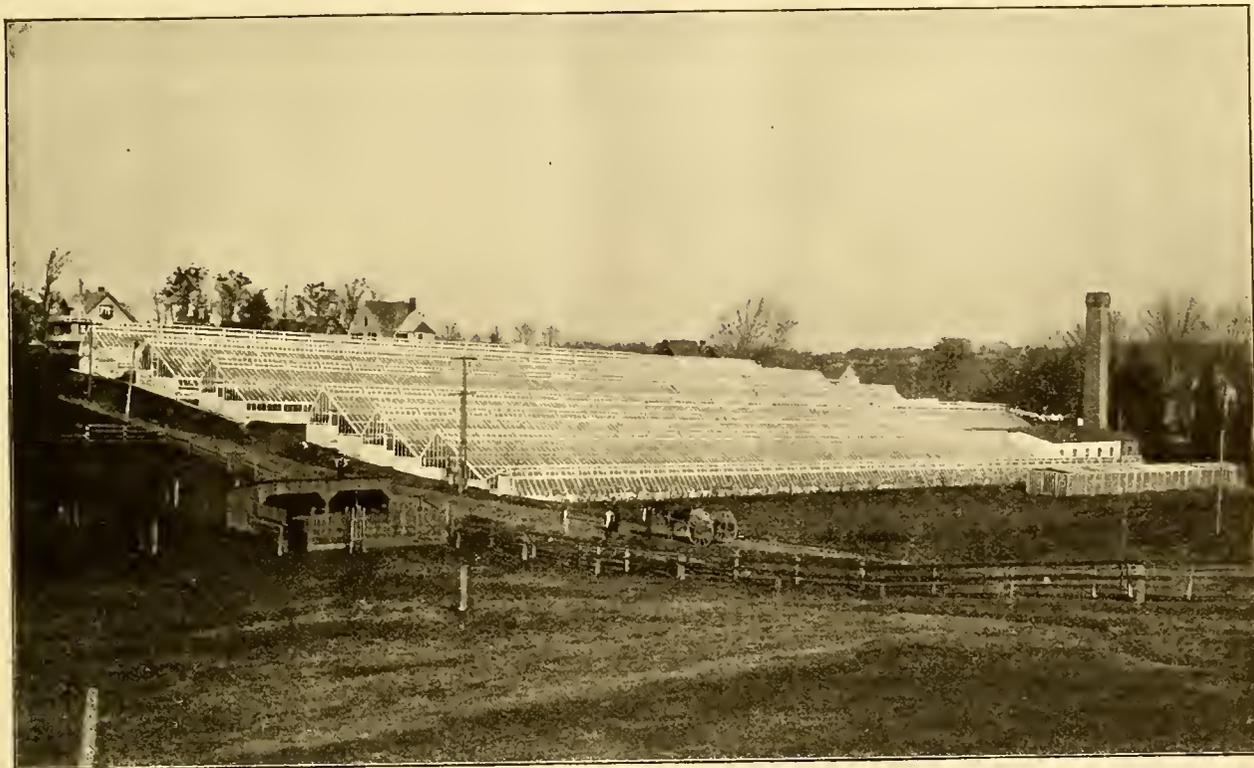
When we undertake to furnish food to a plant or a number of plants it is reasonable to suppose we will understand the particular requirements of the plants and the nature of the food we propose to supply; but I fear a great many of us will have to admit that our knowledge is very scant indeed. If we knew enough about the laws of chemistry to analyze our soils and determine what properties are lacking which are known to be essential to the complete development of certain plants, how much guessing and puzzling we might save ourselves, how many failures and partial failures we could prevent; and for the young men of to-day there is no excuse for this ignorance; if we for the space of one year would devote the leisure time now trifled away to the study of chemistry as it relates to our business we would acquire sufficient knowledge to make us much happier and wiser men. Searching for information on this subject I addressed several inquiries to Prof. Halsted, who I believe is here this morning, and I do not hesitate to say he will be most happy to reply to any questions of a scientific nature bearing on our subject. My first question was "To properly develop such plants as roses, violets, carnations and chrysanthemums what chemical properties should the soil possess?" Here is the answer: "The soil for growing roses, carnations, violets, etc., should contain among the leading ingredients of plant food, potash, phosphoric acid and nitrogen, these three being the elements that are most usually absent, one or all, in a soil that is unfit for such plants. In addition to these three substances there needs to be lime and a small amount of iron and other substances; but as these with rare exceptions are present in sufficient quantity nothing further need be said of them. Clay and sand make up the bulk of ordinary soil in connection with the decaying vegetable matter, and this latter furnishes nitrogen." Prof. Johnson, in his work "How crops feed" says practically the same as Prof. Halsted. Speaking of the relative importance of the different ingredients of the soil he says, "Those which like oxide of iron are rarely deficient, are for that reason less prominent among the factors of a crop; if any single substance, be it phosphoric acid or sulphuric acid or potash or magnesia, is lacking in a given soil at a certain time that substance is then and for that soil the most important ingredient. From the point of view of natural abundance we may safely state that on the whole available nitrogen and phosphoric acid are the most important ingredients of the soil, and potash perhaps takes the next rank. These are most commonly the substances whose absence or deficiency impairs fertility, and are those which,

when added as fertilizers, produce the most frequent and remarkable increase of productiveness." These three ingredients then, nitrogen, phosphoric acid and potash, are the most likely to be absent or deficient in our soil, and for that reason are to us the most important.

How are we to discover their presence in the soil, and if not present how can they be introduced? In reference to the above I asked these questions. "What elements of plant food are found in unleached wood ashes, in nitrate of soda, in sulphate of ammonia, and in kainit?" And received this reply: "The leading food element in wood ashes is potash, but as it is the residue after the burning of a vegetable substance, it contains all of the mineral substances which the plant takes from the soil, and the list would be a long one, including lime, magnesia, iron and not to forget phosphoric acid in combination with lime and so on. Nitrate of soda contains nitrogen in combination with sodium, and is a very satisfactory source of nitrogen; and applied in small quantities the plant quickly responds to the nitrogen that is thus received. Sulphate of ammonia also contains nitrogen, and one of the elements of ammonia which is united with sulphuric acid. Kainit is a mixture of very many substances, as potash, common salt, salts of magnesia, and other substances." All these elements or substances may be in the soil in sufficient quantity at the time we fill our benches and plant our roses, etc., and as a result the plants make beautiful growth, but after a time we fancy they are not doing so well, they haven't the same vigor, the same beautiful glossy foliage, the flowers are not quite as large perhaps, and we think something is wrong; and so it is, the supply of food is giving out, the soil is being exhausted probably ten times as fast as it would be out of doors; the growth is much more rapid, and while it only rains once a week, or once a month in the garden or field, it rains every day in the greenhouse, washing down through the benches each time in solution all the different kinds of plant food. It has been proven that plant food is carried down in the water through the drains of well drained land, in quantity sufficient to mature a crop of grain; this being the case we can readily understand how impoverished our soil in a greenhouse bench must become if the amount of food is not constantly added to.

As a general thing when rose foliage has a pale, yellowish, sickly look, it is a sign the plants lack potash, in which case I should use wood ashes at the rate of one barrel to a 100 foot house of the regulation width. About a month ago we found a house of Perles planted for the summer trade that had just this look, but after a liberal dose of wood ashes they are to-day as thrifty and well colored as could be desired. Fruit growers claim that the "yellows" on peach trees can be overcome to a great extent by a liberal use of potash.

Nitrogen, perhaps the most necessary food ingredient, is usually present in sufficient quantity I think where an abundance of manure is incorporated with the soil, but this is not always the case; and I have come to the conclusion that when plants in a greenhouse bench present a stunted appearance without any apparent cause, the roots being in a health state, and all other conditions being favorable, that the soil does not possess nitrogen in sufficient quantity, or else what it does contain is locked up and is not available for the use of the plant. I had an illustration of this last fall in a house of Mermet



GENERAL VIEW OF MR. HEACOCK'S GREENHOUSES AT WYNCOTE, PA.

and Bridesmaid roses. The house was not completed until sometime in August, hence was planted rather late, but the plants were large and vigorous, and the soil as far as we could tell fairly good; the house itself was all that could be desired, yet somehow the plants did not grow, but immediately after planting took on that hard look which none of us like to see. We waited as patiently as possible until a little ahead of Christmas, and then concluded something must be done, or we would never cut enough to pay for heating the house. We accordingly commenced a systematic feeding from a couple of barrels brought into the house, using sulphate of ammonia and fresh cow manure one week, and alternating with nitrate of soda and sheep manure. The animal manure was used in very small quantities, and the salts at the rate of a 3-inch pottul to a barrel of water. They were watered with one of these liquids once a week for about two months. The change was almost instantaneous, and was most remarkable; they at once began throwing up strong shoots from the root, and while they never grew as large as some of the plants in the other houses, yet they produced large crops of flowers, the individual blooms were large, the foliage was perfect; the plants in fact became so strong and vigorous that we selected all our cuttings of those varieties from these same plants, in preference to any others on the place. This should be a sufficient reply to those who claim, that while nitrate of soda and similar fertilizers may stimulate a plant for a time, they simply do so at the expense of the plant's constitution, being almost certain to produce a soft, unhealthy, unnatural growth.

Some years ago I had a house of Mermets roses which began to go back during

the early winter, and it soon looked so disgraceful that we would have pulled out the plants if it had been possible to use the house for another crop, for they looked for all the world as if they were in the last stages of consumption. We debated for some time as to what we should do with them, and finally concluded to try the same experiment I have just mentioned, nitrate of soda and sulphate of ammonia. My employer had very little faith in them, but as he said, the roses were dying anyway, and if this new fangled stuff killed them outright there would be very little loss. The day after they had received the first dose, I took a look to see if they had improved any; you can imagine how I felt, for there was hardly a leaf left on the plants. I thought we had fixed 'em sure, but we picked up the leaves and kept right on with the fertilizers, and strange as it may seem, before spring this was the best house of Mermets we had.

I am fully aware when I speak of nitrate of soda, that some of you will shake your heads in disapproval; there have been cases of injury to plants, the result of its use (abuse I should say) and there will continue to be similar cases in all probability where care is not taken to use only the safe quantity. I have used nitrate of soda for almost all kinds of greenhouse plants, and am not aware that it ever injured any one of them.

A word about phosphoric acid; I can not tell you what symptoms are manifested by the plant when there is a deficiency of this ingredient in the soil, but as I have never heard or read of there being too much of it for the plants welfare, we are safe in furnishing a liberal supply. There is no question of its being a great factor in furnishing food to plants. Bone

meal is one of the best sources of phosphoric acid, yielding as it does from 20 to 25 per cent. I have in mind a farm which invariably produced wonderful crops; the only fertilizers used were barn yard manure, and for all root crops such as turnips, etc., a liberal sprinkling of half inch bones; this had been kept up for at least thirty years, and as there was a systematic rotation of crops each one fed more or less on the bone in the soil. It was not unusual for a crop of oats to average 120 bushels to the acre. There is danger from bone meal in the greenhouse, however, if it has come in contact with acids; Mr. Hunt mentions having lost \$2,000 worth of new roses at one time in this way. It behooves us then to make certain that our hone is absolutely pure.

Lime is usually present in the soil in sufficient quantity, but an addition of this important ingredient to heavy or clayey soils is often very beneficial; it acts as an enricher, as a sweetener, as a pulverizer, and as an insecticide, hence its value to the florist. I had a peculiar experience this spring in the use of lime. Two benches of ferns planted out for cutting became infested with a black fungous growth which threatened the destruction of every plant; we scratched it off, but it grew again, and the plants got smaller daily, when it occurred to us to use air slacked lime as a top dressing; I was sure it would kill the fungus, and didn't know but it would kill the ferns too; but we tried it, a good covering, over crowns and all, and strange to say that while it did not kill the parasite, only checking it, it started the ferns into active growth, and since then we have picked in large quantities the longest and finest adiantums I have ever seen grown on a bench. It is hardly necessary to say I shall not

be afraid to use lime on ferns in the future.

Perhaps the most satisfactory and economical method of supplying food to such plants as roses and carnations during the winter and spring months is by means of liquid manure; I have a decided objection to laying manure on the benches as a top dressing in the late fall, or during winter, believing it to do more harm than good; it prevents evaporation and keeps the sun from the roots at the time when they are benefited the most by its direct action. I do not wish it understood that I dislike mulching at any and all seasons of the year, for I have regularly attended to this operation twice during the season with all tea roses, the first time in August, and the second about March; the first saves a great deal of watering and is entirely gone by November, and the March mulching gives the roots new material to run in and also prevents severe drying out. Between these dates and in fact after the latter date I consider liquid manure cheaper, cleaner in the house and more effective; for ordinary purposes that made from animal manure is the safest and best; four pecks of cow or horse manure, two pecks of sheep manure, or one of hen droppings, is sufficient to make 100 gallons of liquid. I have known people who never thought liquid manure was strong enough, unless its odor was powerful enough to drive most people away from the house where it was being used; but this is against all reason and common sense, far better to use it weak and often; plants, like animals, should be fed regularly if they need feeding at all, not gorged to-day and starved for a month. Their food also should be changed from time to time, so that what is not supplied in one form may be found in another.

A word about the mode of applying liquid manure. The old method was to use barrels in the walks, and apply with the watering pot, and a beautiful job it is, crawling along a 12 inch walk with a 3 gallon can in front of you. I have been there, perhaps some of you have; with such a system the man who has charge of your houses is hardly likely to remind you when the appointed day for going through this performance arrives, and I don't blame him. This old fashioned method may do where the place is very small, and can hardly afford to put in anything very expensive, but where there is much glass something better and cheaper in labor should be devised. We have a system which works so nicely that I will try to describe it to you as briefly as possible.

A large tank holding from 8,000 to 10,000 gallons is built directly under the stable; I should mention the fact that there is a cellar under the building, and in this cellar is our tank, six feet deep, half above ground and half below; the drainage and manure from six horses and two cows find their way into it through an opening in the floor, and this with a change to sheep manure, or nitrate of soda occasionally, gives us all the strength we require. By opening a valve the liquid flows by gravity into another tank which is connected with the steam pump. If the water should get too strong we dilute by starting up the clean water pump and running both at the same time. There is no carting of manure, very little mixing, and no disagreeable sights or smells for visitors. You will readily understand the saving in labor over the barrel and watering pot system, when I say that six men with hose and one to run the pump can water everything in our greenhouses in half a day, whereas

with the old method it would require seven men four full days to do the same work, costing just seven times as much, and not giving half the satisfaction.

In conclusion I would say, that with fertilizers, as everything else, we must study, we must observe, we must experiment; nature's secrets are all locked to the indolent and indifferent, but to the man who will dig, who will search, who will explore, she will yield the key, and lay bare her hidden treasures.

The essay was discussed by Messrs. Hammond, Taylor and May.

Then followed the essay by Mr. Grant on the classification of stock, which follows:

The Classification and Inspection of Commercial Plants.

BY G. L. GRANT, CHICAGO.

The subject is entirely too large to cover in an essay of ordinary length, and I shall do no more than present the several main points for the consideration of the society.

It will be admitted by all that the present description of plants by size of pot means little or nothing. We all know that the variation in quality among a large lot of 2½-inch stuff is simply immense, and runs all the way from first-class to stock fit only for the rubbish heap. Can we devise a classification that will make it possible for the grower to intelligently offer his stock for sale and for the buyer to purchase with discrimination when it is impossible for the latter to personally inspect it?

Probably plants can not be so accurately classified as some other things, but we can beyond a shadow of a doubt devise a system that will be a vast improvement upon the one at present in use.

It seems to me that the number of perfect, healthy leaves upon the plant will more nearly determine its actual value than any other one characteristic. I believe we can come closer to an accurate classification than by this means, but this feature will be an essential point in any system that may be devised. Mind, I do not say merely the number of leaves alone, but the number of *perfect* and *healthy* ones. The leaves may be either large or small and still meet the requirements. It is a botanical axiom that the number and condition of the leaves correspond to the number and condition of the roots in a normal plant. With diseased roots a plant can not produce healthy leaves, and with diseased leaves it can not produce healthy roots. Are not then the number and condition of the leaves a true index of the value of the plant?

Of course the size of the pot should also be considered. In classifying young tea roses I would say that a first-class plant in a 2½ inch pot should have not less than 20 perfect, healthy leaflets; a second-class one not less than 15, and a third-class one not less than 10. It would be necessary to consider each class of plants separately of course, as a rule for one might not be just to another. It might even be necessary to consider each variety separately. Even doing this it would not be such a great amount of work to cover the plants most commonly bought and sold through the medium of correspondence.

I would suggest that a competent committee be appointed to devise a system of classification on the line noted, and submit the same at the next annual meeting for the consideration of the society.

I would suggest further that the committee be requested to prepare a comprehensive exhibit of commercial plants of the various classes, the same to be displayed in the exhibition hall for the information and criticism of the members.

Certain it is that we must make a serious attempt to solve the problem of classification if the shipping trade is to continue its growth. In the sharp competition that now prevails there is a continual tendency toward lower quality in order to meet lower prices. Often the "cheap" plants would not be accepted as a gift if the actual quality was known to the buyer. I consider it the duty of this society to make it possible for the grower of really good stock to so offer it in his printed list or advertisement that its value will appear and be appreciated, and for the buyer to be able to know what he is buying.

Of the questions taken from the question box the "Advisability of flower markets" was the only one responded to, Mr. Wm. Feast making a brief reply.

The Trade Exhibition.

The awards at the exhibition were as follows:

FLORISTS' SUPPLIES.

H. Bayersdorfer & Co., Philadelphia, certificate of merit for largest and best general collection of florists' supplies and fancy baskets.

E. Kaulmann & Co., Philadelphia, honorable mention for display of fancy baskets, wheat sheaves and metal designs.

Z. De Forest Ely & Co., Philadelphia, highly commended for general collection of florists' supplies.

E. Steffens, New York, honorable mention for collection of wire designs.

W. C. Krick, Brooklyn, N. Y., certificate of merit for collection of immortelle letters and designs.

J. C. Meyer & Co., Boston, honorable mention for silkline.

A. Herrmann, New York, certificate of merit for large and complete collection of metallic designs.

Whilldin Pottery Co., Philadelphia, certificate of merit for largest and best collection of fancy jardinières.

S. A. Weller, Zanesville, Ohio, honorable mention for fancy jardinières in artistic designs.

A. Blanc & Co., Philadelphia, honorable mention for large collection of imported Japanese flower pots.

Aug. Brabant, New York, certificate of merit for florists' pins.

PLANTS.

Robert Craig, Philadelphia, certificate of merit for collection of highly colored healthy outdoor grown crotons, and honorable mention for general collection of palms, ferns, etc.

Edwin Lonsdale, Chestnut Hill, Philadelphia, certificate of merit for finely grown specimens of *Areca lutescens*.

Siebrecht & Wadley, New Rochelle, N. Y., honorable mention for collection of palms, ferns, orchids, and decorative plants.

Henry A. Dreer, Philadelphia, certificate of merit for collection of fine grown palms and ferns.

Pitcher & Manda, Short Hills, N. J., certificate of merit for collection of palms, ferns, orchids, and stove plants, also for *Anthurium crystallinum variegata*. *Strobilanthes Dyerianus* from same firm was highly commended.

W. A. Manda, South Orange, N. J.,

highly commended for a general collection of plants.

Edw. A. Seidewitz, Annapolis, Md., highly commended for a general collection of plants.

Charles D. Ball, Holmesburg, Philadelphia, honorable mention for general collection of palms and decorative plants.

F. R. Pierson Co., Tarrytown, N. Y., highly commended for general collection of palms and decorative plants.

Storrs & Harrison Co., Painesville, O., honorable mention for collection of budded hybrid perpetual roses.

BULBS AND SEEDS.

J. C. Vaughan, Chicago, certificate of merit for a very complete display of bulbs.

Z. De Forest Ely & Co., Philadelphia, highly commended for Liliums Harrisii and candidum, freesia, Roman hyacinths, narcissus and callas.

F. R. Pierson Co., Tarrytown, N. Y., highly commended for Roman hyacinths, narcissus, Liliums Harrisii and candidum and collection of freesias.

Pitcher & Manda, Short Hills, N. J., highly commended for callas, Liliums Harrisii, longiflorum and candidum, Roman hyacinths, narcissus and freesias.

Henry F. Micbell, Philadelphia, highly commended for cineraria and primula seeds, Lilium Harrisii, callas, freesias and Roman hyacinths.

Henry A. Dreer, Philadelphia, highly commended for neat exhibit of hyacinths and tulips.

C. H. Joosten, New York, highly commended for Liliums candidum, Harrisii, and longiflorum, Ornithogalum arabicum, Roman hyacinths, narcissus, and callas.

CUT FLOWERS.

Cushman Gladiolus Co., Euclid, O., certificate of merit for collection of seedling gladiolus.

W. Tricker & Co., Clifton, N. J., certificate of merit for exhibit of aquatics.

John N. May, Summit, N. J., honorable mention for new rose, Mrs. W. C. Whitney.

E. S. Schmidt, Washington, D. C., a commendable exhibit of water lilies and lotus.

Thomas Foulds, Gwynedd, Pa., honorable mention for two vases of Mermet and Bride roses, unusually good for summer.

H. A. Dreer, Philadelphia, certificate of merit for collection of canna flowers.

Henry Pfister, gardener at the White House, Washington, honorable mention for collection of water lilies.

F. R. Pierson Co., Tarrytown, N. Y., honorable mention for large vase of Meteor roses.

Pitcher & Manda, Short Hills, N. J., honorable mention for collection of hardy herbaceous flowers.

POTS AND GREENHOUSE APPLIANCES.

A. H. Hews & Co., North Cambridge, Mass., certificate of merit for flower pots.

Whilldin Pottery Co., Philadelphia, honorable mention for flower pots.

Parmenter Mfg. Co., East Brookfield, Mass., highly commended for flower pots.

Hitchings & Co., New York, certificate of merit for ventilating apparatus.

E. Hippard, Youngstown, O., honorable mention for ventilating apparatus.

Quaker City Machine Co., Richmond, Ind., honorable mention for ventilating apparatus.

E. A. Ormsby, Melrose, Mass., honorable mention for ventilating system.

Chadbourne-Kennedy Mfg. Co., Fishkill, N. Y., honorable mention for automatic hydraulic ventilator.

Hitchings & Co., New York, honorable mention for iron conservatory, also for

greenhouse construction. Same firm, highly commended for greenhouse gutters.

Lockland Lumber Co., Lockland, O., certificate of merit for greenhouses of cypress lumber.

Powell Fertilizer and Chemical Co., Baltimore, highly commended for display of insecticides and plant food.

Bonnaffon Steel Fence Co., Philadelphia, certificate of merit for fence.

Hose Connection Co., Kingston, R. I., certificate of merit for the Kinney pump, for the distribution of insecticides and manures.

Rose Mfg. Co., Niagara Falls, N. Y., certificate of merit for tobacco soap.

BOILERS AND HEATING APPARATUS.

Herendeen Mfg Co., Geneva, N. Y., certificate of merit for display of boilers, their admirable construction and adaptability for the consumption of the smaller sizes of coal, they being the cheaper, and also their adaptability for either water or steam.

Hitchings & Co., New York, honorable mention for exhibit of boilers, noting simplicity of construction and ease of operation.

Thomas Weathered's Sons, New York, highly commended for exhibit of models of their apparatus, showing improvement and ease of operation.

MISCELLANEOUS EXHIBITS.

Edwards & Docker, Phila., certificate of merit for paper folding boxes for cut flowers.

D. B. Long, Buffalo, certificate of merit for photographs of floral arrangements.

J. Horace McFarland Co., Harrisburg, Pa., highly commended for specimens of catalogue work.

Frank L. Moore, Chatham, N. J., certificate of merit for his Workeasy buckle for cut flower slippers.

Thomas Woodason, Phila., certificate of merit for bellows for distributing insecticides.

C. H. Joosten, New York, honorable mention for bellows for distributing insect powder.

Benj. Chase, Derry, N. H., highly commended for labels and plant stakes.

Worcester Wire Co., Worcester, Mass., certificate of merit for wire plant support, especially adapted for staking carnations. Same firm highly commended for cheap wire nipper.

James R. Wotherspoon, Phila., highly commended for collection of well made watering pots.

Mr. McFarland made his promised interesting exhibit, but owing to unavoidable causes he was detained at home and was unable to attend the convention.

American Rose Society.

At the annual meeting of the American Rose Society Tuesday evening there was much enthusiasm. All details about which there was difference of opinion have now been settled to the satisfaction of all. The work of the society will be pushed actively along. The officers elected for the ensuing year were Robt. Craig, president; John H. Taylor, vice-president; H. B. Beatty, secretary; John N. May, treasurer. The president will at once appoint six members to act with the officers as an executive committee to carry forward the work laid out.

National Chrysanthemum Society.

At the meeting of the Chrysanthemum Society officers for the ensuing year were elected as follows: E. A. Wood, West Newton, Mass., president; E. G. Hill,

Richmond, Ind., vice-president; Elmer D. Smith, Adrian, Mich., secretary; John N. May, Summit, N. J., treasurer. A motion was carried to appoint a committee of three members in the vicinity of the large centers to examine all new seedlings and sports submitted to their judgment. The flowers to be in the second season's trial, and not less than six blooms of any one variety to be sent to such committee.

Boston and New York to Atlantic City.

The magnificent new Fall River Line boat the Priscilla was on Sunday evening, August 19, the scene of one of those jolly occasions which are always assured when a party of florists and their ladies get together in one company. There have been larger delegations on previous occasions, but never a pleasanter one. It was a bright moonlight night, and the cool sea air was enjoyed to the fullest extent, most of the party remaining out on deck until midnight, and indulging in an occasional song under the skillful leadership of Elijah Wood and Warren Ewell. The arrival in New York was signalized by one of those characteristic demonstrations on the part of the New York Florists' Club, which have on so many former occasions been experienced by the brethren passing through that hospitable city. As soon as the boat had touched the dock a committee of the New York Club, headed by President O'Mara, made its appearance, and came aboard lugging enormous boxes and baskets of flowers and smilax, which were quickly arranged on the dining room tables, and the visitors were then invited to breakfast with the New York Club. Their comfort had been further provided for in the way of an Annex boat, which was ready to convey the party directly across the river to the Jersey Central R. R. from the Fall River Line dock. The company aboard the special train from New York to Atlantic City numbered about one hundred and fifty, including a goodly proportion of ladies. On the sides of the cars were banners bearing the inscription in large letters "New York Florists' Club, 1894," and the cars were all liberally decorated inside and out with gladiolus and hydrangeas, lilies and smilax, which had been generously contributed by members for this purpose. Two combination cars furnished abundant accommodations for those who had assumed the pleasant duty of providing refreshment for the inner man, and from the thoroughness of the arrangements and the lavish generosity displayed it was evident that the hand of a fine artist in this line was at the helm. The run to Atlantic City was made in about four hours, nothing happening to mar the full enjoyment of every minute, excepting a woeful accident to a portion of Koffman the smilax king's special supplies, but as this worthy exclaimed, "There was still plenty left."

Convention Echoes.

Overheard at the convention. "Who's that speaking now?"

"That's X. He's for business all the time, but I never saw him doing any."

Overheard on the Philadelphia train. "What do I know about horses? Say, look at here, let me tell you something right now. I bought that horse all alone. He cost me \$125 and I sold him for \$25. Matter with him? There's nothing the matter with him. A little cramped in the leg, that was all. That's straight. I'll leave it to Paul if it ain't."

John Spaulding's remarks on the labor question, and on boys in particular, during the discussion of the president's address, brought down the house. The young old gentleman carries his eighty years with wonderful ease. To those complaining of their experiences with tramp gardeners he said: "When you have a good man treat him well, and you won't have so much experience with tramps."

The essay by F. Schuyler Matthews was pronounced by all who heard it one of the finest things ever done at a florists' convention. H. A. Dreer kindly furnished all the flowers used by Mr. Matthews to illustrate his remarks.

The Philadelphia Ledger had a special correspondent and typewriter in constant attendance at the convention. The Ledger knows what it is about.

The delegates from Chicago and the northwest were delayed nearly four hours, being twice blocked by wrecked freight trains.

The Bowling Contest.

Buffalo won the Philadelphia Club cup for highest three games, the Spaulding cup and the Florists' Exchange banner for the highest score in first game. New York took second for highest three games, Philadelphia third. Keppler of the New York team took first prize for the highest individual score in one game, and also first for highest score in three games. Leuly of New York took second for individual score in one game. See full record of scores below.

PITTSBURG.

	1st	2nd	3rd	Total
Reineman.....	142	94	125	361
Bennett.....	121	108	116	345
Oesterle.....	123	106	105	334
Bieler.....	108	147	105	360
Ludwig.....	102	93	112	307
Burke.....	95	92	128	315
Totals.....	691	640	691	2022

WASHINGTON.

A. Gude.....	99	123	126	348
W. F. Gude.....	141	123	116	380
J. R. Freeman.....	150	113	163	426
G. W. Oliver.....	123	164	121	408
W. F. King.....	137	118	134	389
C. F. Hale.....	103	123	93	319
Totals.....	753	764	753	2270

BUFFALO.

Mepsted.....	167	144	147	458
P. Scott.....	149	147	161	457
Geo. Asmus.....	111	130	142	383
H. Bunyard.....	112	118	156	386
J. Kromerick.....	154	140	125	419
W. Scott.....	154	142	140	436
Totals.....	847	821	871	2539

FLATBUSH.

D. Y. Mellin.....	126	135	133	394
G. Bergmann.....	162	128	119	409
P. Riley.....	130	162	131	423
A. Zeller.....	118	135	115	368
S. Sweiser.....	98	130	149	377
E. Dailedouze.....	140	123	131	394
Totals.....	774	813	778	2365

PHILADELPHIA.

R. Kift.....	130	118	132	380
G. Craig.....	130	137	166	433
W. K. Harris.....	100	123	153	276
Geo. Anderson.....	107	144	114	365
F. Brown.....	155	139	145	439
T. Kennedy.....	134	147	115	396
Totals.....	756	808	825	2389

SUMMIT, N. J.

D. MacRorie.....	128	123	150	401
H. Troy.....	83	92	89	264
A. Caharn.....	104	103	117	324
H. J. Ueneman.....	95	118	116	329
H. Jacobson.....	108	111	104	313
E. Bourne.....	91	128	115	334
Totals.....	609	674	691	1975

NEW YORK.

Leuly.....	153	171	134	458
P. O'Mara.....	125	119	127	371
Dihm.....	119	149	158	426
T. Rochrs.....	132	109	119	360
J. Manda.....	108	132	163	403
Keppler.....	133	164	173	470
Totals.....	770	844	874	2488

ST. LOUIS.

Tesson.....	111	102	134	347
W. Young.....	100	119	111	330
Schray.....	114	144	112	370
C. Young.....	125	112	127	364
A. Waldbart.....	110	126	110	346
H. Young.....	121	123	134	378
Totals.....	681	726	728	2135

BOSTON.

T. A. Cox.....	136	98	142	376
H. F. Lange.....	126	108	126	360
W. Ewell.....	129	112	92	333
E. Welsh.....	102	106	124	332
W. A. Manda.....	138	116	167	421
P. Welsh.....	136	103	137	375
Totals.....	766	643	788	2197

CHICAGO.

J. S. Wilson.....	95	113	112	320
Burt Eddy.....	77	95	70	242
J. T. Anthony.....	83	114	85	282
J. C. Vaughan.....	91	87	98	276
A. Newett.....	61	90	115	266
L. Schiller.....	105	105	101	311
Totals.....	512	604	581	1697

The Final Session.

Thursday afternoon the proposed by-laws which defined more exactly the manner in which the funds of the society should be handled were adopted, having been previously read the required number of times. Mr. W. K. Smith explained the cause of the absence of Mr. Benj. Durfee of Washington, and the deferred essay on statistics will appear in the printed report when issued. The report of the committee on fire insurance was accepted, and the committee continued. Mr. W. R. Smith of Washington announced that the bill providing for a charter for the society had now been passed by Congress, and lacked only a few formalities before becoming law. The announcement was received with applause, and a vote of thanks was given Mr. Smith for his efforts in securing the national charter. The report of the committee on final resolutions extended the thanks of the society to the several committees of the Florists' Club of Philadelphia, who had made the stay of the society so pleasant and profitable, mentioning specially Chairman Ball of the Ladies' Committee, Chairman Westcott of the committee on Bowling Contest, Chairman Burton of the Committee on Shooting tournament, Mr. Craig for his efforts in preparing the yachting cruise and entertainment at the Iron Pier, Vice-President Kift for acting as general utility man and helper to everybody, and to the Philadelphia Public Ledger for its excellent reports of the proceedings of the society from day to day. This closed the work of the convention. A full account

of the various entertainments will appear in next issue.



Chrysanthemum Notes.

The houses of chrysanthemums will from now on demand more and more attention, and there will be a large number of small things to be attended to, each one not much in itself, but which in the aggregate will take a great deal of time. The other houses are also beginning to demand attention, and the plants outdoors will soon have to be brought in, so, if you can, it is better to arrange your time and give the chrysanthemum houses an hour or so in the early morning. This is the best time to water them, which will now be required every pleasant morning and on very warm days if the plants are in shallow benches perhaps again later in the day, but avoid watering in the evening, for you are very apt to lose some of the foliage where it is thick and heavy if the water stands on it over night. But it should never be forgotten that the chrysanthemum is a great feeder and at no time during its growth should it be allowed to become dry, and now, when it is carrying such a heavy growth of foliage and the tips are soft, especial care should be taken to prevent it from wilting.

A little time can be well spent every day looking carefully over the plants. The lower eyes will begin to open and send out shoots as soon as the plants begin to bud, and these should be rubbed out as soon as they make their appearance, so as to keep all the strength possible in the top of the shoot. The plants must be kept well tied up, and it is a good idea to keep bunches of raffia or string hung up through the house, so that they will be within easy reach, and as you pass through you can stop and tie up any shoot that may need it.

ELIJAH A. WOOD.
West Newton, Mass.



TO PREVENT RUST.—Dissolve one pound of sulphate of copper in two quarts of ammonia in a 2-gallon jar. When dissolved add another quart of ammonia and stir well. [The liquid can be kept in this form for some time and used as needed.] Add a pint of this solution to a barrel of water and syringe the plants with a force-pump every two weeks. And don't let the time for spraying pass without attending to the operation.

Carnation Notes.

We are now in the midst of "planting in" the houses, and a few suggestions or rather reminders will be appropriate, even if they are rather antiquated.

In taking up carnations there are a number of methods followed; some will

take them with a ball of earth attached, others shake it all off, and some will sort of "divvy up" between the two extremes. Some growers prefer planting immediately after a rain, others during a dry spell. Whichever one of these methods you have been the most successful with that is the one for you to use. My own experience is to plant in during a dry spell of weather, when the soil is just loose enough to fall off nicely without shaking it, and thus all the roots are preserved without taking a large useless ball of earth into the houses. Where one does not have too many to plant it is best to wait until the weather is suitable, but for large growers it is not so important an item; at least not as important as to have them housed at the right time, for they can be handled in the houses according to their needs. If they have been planted during a rainy spell they will require a heavier shading, and this left on a little longer than if planted during dry weather, when the plants are comparatively harder and better fitted for transplanting.

For digging use a spading fork, not a shovel, as the digger is less likely to cut roots with a fork. Take boxes deep enough so that the plants when put in will stand up, and not hang over the sides to be all broken up in handling. The digger puts the plants into the boxes at once; these boxes are brought into the house, and the planters plant direct from them, thus avoiding handling the plants and getting them all full of soil and dirty looking; I have seen some freshly planted houses that looked as if they never would get clean.

The soil in the beds or benches, whichever you use, should be nice and mellow but not too fine, for it is better to have it a little rough than so smooth and nice that it will pack solid the first watering it gets. Have it moist but not wet; it should be in condition to plant either with the hand or a trowel; the latter is preferable to keep the plants clean. In planting make a good sized hole, so that you can spread the roots some; it is a mistake to crowd them into a small hole. See that they are not planted any deeper in the house than they were in the field, and press the soil moderately. Water according to their needs, being careful not to turn the soil into mud, as soil in that condition is almost sure death to carnations.

The houses should have a light shading while you are planting and for a week or two afterwards; any good shading that is not too hard to get off will answer for this. Syringe the plants once or twice a day, but not later than 1 or 2 o'clock in the afternoon, so that they will be dry by nightfall, and keep a sharp lookout for them until well started; this is a critical period in the life of a forcing carnation, and there is no eye like your own for seeing that they get through it all right.

ALBERT M. HERR.



Three Gems.

Lælio-Cattleya Maynardi. This grand hybrid was introduced about two years ago by F. Sander & Co., and named in honor of their foreman. It is the result

of a cross between *Cattleya dolosa* and *Lælia Dayana*; thus we have another gem where *L. Dayana* has played an important part. The sepals and petals are light purple, two inches in length by three-quarters inch broad, equal, slightly recurved; lip open, three lobed, front lobe bright rosy purple with deeper veinings, crest and side lobes darker purple; throat white slightly suffused; column white. Flowering in late July and August, twin flowered and lasting long in perfection. This plant must be grown in a basket hung well to the light in the shadiest and warmest part of the cattleya house.

Lælio-Cattleya Timora. This rare hybrid is the result of crossing *Cattleya speciosissima* with *Lælia Dayana*, and the influence of *Lælia Dayana* is very manifest. The habit of plant is intermediate. It is one of the Veitchian gems, and has again proven the value of *L. Dayana* as a parent. The flowers are about four inches across; sepals and petals light rosy purple; sepals two and a half inches by three-quarters inch wide, petals two and a half by one and a half broad, lip long, velvety purple, convolute; side lobes rich purple shaded; throat white slightly suffused rose, with two dark purple lines in the center. The habit of plant dwarf, of good constitution and flowers of great substance, lasting long in good condition, flowering in July and August. It should be grown under same conditions as *Maynardi*.

Cœlogyne Sanderiana. A fine species recently introduced, being discovered by Forstermann while collecting for F. Sander in 1886. While the locality has not been divulged, no doubt it is an East Indian species. The plant is of robust habit; pseudo-bulbs over three inches long, ovate and slightly corrugated; leaves oblong, lanceolate, over twenty inches in length by three and a half in breadth; flower spikes produced with the young growth, twelve to fifteen inches long, arching, carrying about eight flowers over three and a half inches across; sepals and petals pure white; lip three lobed; the side lobes erect, crisped at the front margin, and streaked with reddish brown on inside; yellow blotch on front crisped part of lobes; intermediate lobe of lip acute, reflexed and undulate, with a rich lemon disc on which are raised six or seven fringed ochreous brown lines.

This is indeed a fine introduction and a picturesque plant even out of flower, with its strikingly handsome foliage. Grown in a basket well up to the light it makes its growth immediately after the flower spikes are gone. It should have an intermediate temperature and an abundance of water at the roots while developing the bulbs, after which it should have a season of rest, but should not be allowed to become dry. The spikes will appear about June, when additional water should be supplied to aid in developing the flowers, likewise the future growth of the plant.

It is a pleasure to recommend this fine orchid, developing its flowers as it does in late July and August and lasting so long in perfection. It makes a grand companion to *C. Sanderæ*, *Cummingi* and *ocellata maxima*, all of which are desirable summer and autumn blooming kinds.

WM. ROBINSON.

North Easton, Mass.

CRAWFORDSVILLE, IND.—Premiums to the value of about \$150 will be awarded at the chrysanthemum show to be held next November.

Chicago.

The quality of stock is constantly improving, although the sudden drop of temperature at night from the heat of the day has caused more or less mildew. Beauties are coming in, in quite large quantities, but very few good flowers are left unsold. The smaller varieties however, do not move as freely. Large quantities begin to arrive again from outside points; this stock suffers greatly in transit at this season of the year, and its only mission seems to be to depress prices on fresh stock. Business continues to show a slowly improving aspect in local circles. Demand from outside points is very slow.

The drouth first and now the grasshoppers are making serious inroads on the carnation fields. Quite a number of growers are beginning to bench their stock, although the date is early this seems to be the best course to check this evil. Rust has made its appearance in a number of fields, and Silver Spray, the same as last year, appears to be the worst sufferer. Violets have made a rather poor growth, but are on the whole fairly free from the disease so far.

O. J. Friedman has again taken possession of his store on the corner of Michigan avenue and Jackson street. The store fronts on both streets have been remodeled. This in addition to new and handsome furniture throughout makes the place a very attractive one.

C. Paasch of 224 Clybourn avenue has bought out the establishment of Mr. Schindler of 39 Marion Place.

Among recent visitors were Mr. F. R. Pierson of Tarrytown, N. Y., and Mr. Wm. Clark of Colorado Springs, Col.

Toronto.

It is doubtful if this city will send any representative to the S. A. F. convention at Atlantic City, a statement which I much regret having to make. This is not from any lack of will, the spirit is willing (very much so) but is rather I expect owing to the extremely stringent state of the money market just now. There is considerable guessing as to who will be chosen for president for the coming year, and nearly all the guessers seem to light on a man residing about 50 miles from Toronto, one who is very popular in this part of the country. *Nous verrons*.

The weather still keeps very dry, not a drop during this last week, leaves are falling off some of the trees; the hose has to be kept going constantly, but after all a good rain could do more good in half an hour on an acre or two of grass than the hose would in two days.

Serious opposition is threatened in the banana trade. The Normal School have a bunch with about five dozen very fine pods, and several other places about town are also raising them. It is proposed that a member of the association out of employment should start a stall for the sale thereof, advertising them as follows "encourage home products" "Canadian grown," "Our own make" etc., etc.

Harry Slight still holds the fort at his old stand on Yonge street, in spite of all reverses, I have been unable to get at how the business was worked. The lily ponds at the Central Prison and Reservoir Park are now in their full glory and attract much attention. E.

WINONA, MINN.—W. E. Smith, who was formerly in the business here, has decided to enter the trade again, and is building on Main and Sarnia streets. His establishment will be known as the Southside Greenhouse.

St. Paul, Minn.

Good flowers continue scarce and any sudden call for any considerable quantity, especially in white, finds everyone "sold out." Sales, however, have been light.

The cut of roses is better both in quality and quantity. Some very nice Perle, La France, Meteor, Kaiserin, Albany and Brides are seen. Asters are also coming into bloom and meet with ready sale at cheap prices. Sweet peas still are being offered, but unless a soaking rain comes soon they will dry up entirely.

The flower beds at Como Park are now looking fine. Several large beds of Mrs. Beardsley geraniums in full bloom bear witness to the excellence of that most beautiful variety. The cannas are now in full bloom. Mme. Crozy, Florence Vaughan, Chas. Henderson, A. Bouvier and other large flowering varieties are among the most attractive plants to be seen.

J. C. Fleischer & Son are tearing down their houses, closing out their stock and embarking in the poultry business. Their friends in the trade wish them success in their venture.

L. L. May & Co. have commenced the erection of three new houses, each 12x160 feet in dimensions, to be built with the short span to the south. This will add some 7,000 square feet of glass to their range and give them one of the finest plants in the state.

E. F. Lemke is putting the finishing touches to his new houses, he having added some 7,000 feet of glass to his extensive range. The new houses are well arranged and perfect in detail. FELIX.

OBITUARY.

Mr. W. Hugh Gower, widely known in the orchid world, died at Tooting, England, July 30. Mr. Gower was a frequent contributor to English gardening literature, being an especial authority on orchids and tropical ferns. He was for a long time at the Royal Botanic Gardens, Kew; latterly with Messrs. Williams at Holloway. Mr. Gower was in his 60th year.

J. G. GAMMAGE.

It is with the deepest feeling of regret that we report the death of Mr. J. G. Gammage, junior member of the firm of J. Gammage & Sons, London, Ont., who died at the family residence on August 5, at the age of 29. The deceased was of a studious disposition, and won many friends, who deeply regret his demise. The family have the sympathy of all in their sad bereavement.

News Items.

Subscribers are requested to report to us anything of trade interest that may take place in their vicinity. Where they happen to be nearer to the following points notes may be forwarded to our correspondents there, the name and address of each being given below:

- NEW YORK AND BOSTON.—W. J. Stewart, 67 Bromfield St., Boston.
- PHILADELPHIA.—Robert Kift, 1725 Chestnut St. CHICAGO.—Office of publication.
- ST. LOUIS.—Robert F. Tesson, West Forest Park.
- WASHINGTON.—C. Leslie Reynolds, U. S. Botanic Garden.
- TORONTO.—A. H. Ewing, 85 Carlton St.
- BALTIMORE.—Wm. McRoberts, Jr., 304 W. Madison St.
- BUFFALO.—Wm. Scott, 479 Main St.
- PITTSBURG.—A. J. Edmonds, 45 Dithridge St.
- DENVER.—H. H. Given, Cor. Lincoln and Alameda Sts.
- MILWAUKEE.—C. B. Whitnall, 435 Milwaukee St.
- CLEVELAND.—L. F. Darnell, 101 Euclid Ave.
- CINCINNATI.—E. G. Gillett, 131 Walnut St.
- INDIANAPOLIS.—W. G. Bertermann, 37 Massachusetts Ave.

Hail Association Report.

SECRETARY'S REPORT.

The Florists' Hail Association now consists of 574 members in good standing, and the risks in force on August 1st, 1894, are equivalent to a single risk upon 6,653,695 square feet of glass, divided as follows: On single strength glass, 2,218,169 square feet; on double strength, 3,163,388 square feet. Extra half, 74,295 single and 17,442 double; extra whole, 408,045 single and 739,735 square feet of double strength glass.

10,403 feet of single thick, and 1,666 feet of double thick was broken by hail during the past year, being a trifle over one out of every 213 square feet of single, and one out of every 1,899 feet of double insured.

The total cash balance in the Treasurer's hands is \$5,200.15; this, together with \$3,000 in securities invested for the Reserve Fund, makes the total assets \$8,200.15, against which there were no liabilities on August 1st, 1894. Of the cash balance, \$4,560.60 belongs to the Assessment Fund, and \$639.55 to the Reserve Fund.

Owing to the depletion of funds by the disastrous losses of last year, it was necessary to levy the 5th assessment on May 1st, 1894, which, notwithstanding the prevailing business depression, was responded to by a greater percentage of members than any previous assessment. The sudden death of Treasurer Hunt upon the eve of the levy of this assessment was especially unfortunate, but by prompt action on the part of the officers and directors, the business of the Association was transacted with trifling delay, thereby in an entirely unexpected manner furnishing a perfect test of the stability of the Hail Association and the perfection of its methods. Your Secretary desires to tender his thanks to members for their patience and forbearance while order was being restored out of the chaos caused by the sudden demise of the late universally lamented Myron A. Hunt. The 5th assessment brought to the treasury of the Association \$3,899.51.

The expenditure for salaries, postage, expenses, stationery, etc. for the year is \$569.62. The amount paid for losses is \$715.77. When compared with the expenditures of \$5,856.83 last year for glass broken, it will be seen that the members of the Florists' Hail Association have reason to congratulate themselves upon their good fortune, which has not been shared by many florists who were not members of the association.

During the past year the Secretary has been able to locate 55 hail storms in 20 different States, some being especially violent.

At the end of seven years the Florists' Hail Association has performed all that the most sanguine projectors claimed, and it is safe to say has fairly earned the confidence reposed in it by its members. JOHN G. ESLER, Secretary.

TREASURER'S REPORT.

During the past year three persons have officiated as Treasurer, as will be seen by the following reports:

Cash in hand, reported by J. C. Vaughan, last year	\$1,679.20	
Amount received by J. C. Vaughan to Sept. 17, 1893	162.99	
Salary as treas., J. C. Vaughan		\$ 4.50
Cash transferred to Treas. M. A. Hunt by Treas. J. C. Vaughan		1,837.69
	\$1,842.19	\$1,842.19

Cash in hand, received by M. A. Hunt from J. C. Vaughan	\$1,837.69	
Received by M. A. Hunt, from fees, new members, reinsurance and 6 months' interest on bonds	375.41	
The following bills were paid by M. A. Hunt:		
By printing receipts		\$ 4.00
By advertising annual meeting (American Florist)	1.96	
By advertising annual meeting (Florists' Exchange)	1.00	
By advertising annual reports (American Florist)	8.00	
By 500 certificates	4.00	
By 200 orders on treasurer	1.50	
By membership in Protective Association	5.00	
By 600 letterheads	5.25	
By advertisement, 1 year, American Florist	25.48	
By expenses of M. A. Hunt to Chicago	9.00	
By stamped envelopes, printing	8.25	
By amount returned to Bradford Rosery	3.50	
By filing certificate with Sec. of State of N. J.	1.00	
By filing record with Sec. of State of N. J.	20.00	
By 1,500 applications	8.25	
By advertisement, 6 months, Florists' Exchange	6.75	
By 650 assessment blanks	4.00	
By 1,000 envelopes	3.25	
By 1,000 applications	7.75	
By Ellis Bros., Keene, N. H., loss	11.01	
By R. E. Nace, Royersford, Pa., loss	10.25	
By Henry Krueck, St. Paul, Minn., loss	18.30	
By Fred Burkli, Bellevue, Pa., loss	47.76	
By mortgage, reserve fund investment	500.00	

Balance paid by McKean & Co., for M. A. Hunt to J. G. Esler, Treasurer	1,497.84
	\$2,213.10
	\$2,213.10

TREASURER'S STATEMENT FROM MAY 1ST, 1894.

RECEIPTS.	
Received from McKean & Co., account of M. A. Hunt	\$1,497.84
Received from McKean & Co., account of J. M. Jordan, being funds received by the president	516.90
Received by treasurer for reinsurance	9.94
Received by treasurer from all other sources	4,241.00
Total	\$6,265.68

DISBURSEMENTS.	
Paid Chapin Bros., Lincoln, Nebraska, 16th street houses	\$ 43.50
Paid Chapin Bros., Lincoln, Nebraska, Union College houses	35.60
Paid Hackensack Republican, 500 postal notices	7.00
Paid expressage on treasurer's books and papers	1.45
Paid Stamm & Clare, Hutchinson, Kans., loss	11.53
Paid Emma Killenberger, Fort Dodge, Iowa, loss	16.74
Paid Langdon & Belt, Sterling, Ill., loss	39.25
Paid F. M. Pennock, Charlestown, W. Va., loss	6.70
Paid expressage on blanks and treasurer's vouchers	1.25
Paid J. C. Willis, East Rochester, O., loss	27.45
Paid 500 proofs of loss	10.75
Paid 100 warrants	1.50
Paid over remittance, amount returned	1.38
Paid 1,000 envelopes	3.00
Paid circulars	.50
Paid J. M. Jordan, president, expenses to Terre Haute, postage, expressage, etc.	18.10
Paid August Mining, East St. Louis, loss	30.80
Paid Ella Campbell Wilson, Cleveland, Ohio, loss	18.19
Paid 150 note circulars	3.75
Paid F. Hahman, Phila., loss	11.07
Paid C. V. Evans, Kearney, Neb., loss	8.78
Paid J. P. Corn, Jr., Lexington, Mo., loss	45.38
Paid Chas. P. Mueller, Wichita, Kans., loss	5.81
Paid S. D. Bradford, Colorado Springs, loss	43.60
Paid Fred Ehrbarr, Cleveland, Ohio, loss	37.75
Paid W. H. Culp & Co., Wichita, Kans., loss	4.50
Paid estate of M. A. Hunt, salary as treasurer	30.00
Paid C. E. Kern, Kansas City, Mo., loss	5.837
Paid 500 letter circulars, 300 note circulars and 100 noteheads	14.00
Paid Frank Luce, Ashtabula, O., loss	123.96
Paid Mrs. S. E. Luther, Lawrence, Kans., loss	4.58
Paid J. S. Morris, Glen, Kan., loss	14.67
Paid Steinhäuser & Eagle, Pittsburg, Kans., loss	4.69
Paid Florists' Exchange, advertisement, 6 months	6.50
Paid Wm. Clark, Colorado Springs, Colo., loss	7.30
Paid The Heite Floral Co., Kansas City, Mo., loss	13.88
Paid Jennie E. Keeling, Canton, Ill., loss	4.00
Paid A. J. & S. M. McCarty, Canton, Ill., loss	10.25
Paid J. M. Jordan, salary as president, 1894	30.00
Paid John G. Esler, salary as secretary, 1894	250.00
Paid John G. Esler, salary as treasurer, May 1st to August 1st, 1894	12.50
Paid John G. Esler, for postage, Sec. and Treas.	45.50
Balance in bank	\$1,065.53
	\$5,200.15
	\$6,265.68

The reserve fund investment consists of:
 No. 1. One 5 per cent Lake View bond for \$ 500
 No. 2. One 4 per cent City of Chicago bond for 500
 No. 3. Two 5 per cent County of DuPage bond for \$500 each 1,000
 No. 4. One 3½ per cent Village of Evanston bond for 500
 No. 5. One 8 per cent mortgage note of Isabella Pearce, of Terre Haute, Ind. 500
 \$3,000
 And 6 months' uncollected interest upon bonds Nos. 1, 3, 3 and 4. And mortgage note.
 JOHN G. ESLER, Treasurer.

Cleveland.

The hot dry weather is of unusual duration this summer and some stocks have shortened up considerable. Sweet peas are very poor where city water is not available. Graham & Son are cutting some very good pink and white with long stems. The asters coming in are good, had and indifferent. Some growers report almost a total failure with this flower. But there is one flower that does thrive in the continued heat and drouth, the geranium beds never looked finer and are one mass of bloom.

Notwithstanding the dullest season the florists have had in years there is considerable glass being added throughout the city. The Williams-Wilson Co., on Eddy Road, will add five additional houses, 150x18. These new houses will be planted with roses, carnations and violets. One large bed of chrysanthemums out doors will have a house built over it and the plants left as they are.

J. W. Heiser, East Cleveland village, has added five houses, one 30x100 for chrysanthemums, two 18x100 for roses, another the same size for palms and decorative plants, and one 12x93 for violets. They are also adding another large boiler. Mr. F. H. Moritz, who is in charge, was complaining of the scarcity of water, which will soon be remedied, as they are building a reservoir on the hill back of the houses with some two thousand barrels capacity. The glass used in the new houses is 18x24 and is from one of the World's Fair buildings. The sash that it came in has been sawed in equal lengths to make walks through the houses.

Congratulations are in order. Charles Erhart, our popular Erie street florist, has taken unto himself a wife. He was married on the 15th inst., and took a bridal tour to Buffalo, Niagara Falls and the East. Although Mr. Erhart is one of the junior members of the craft he has hosts of friends among the trade who will wish him much happiness. L. F. D.

DANVILLE, ILL.—John Willius, formerly with Frank B. Smith, has rented the greenhouses belonging to Nickolaus Admiral, and will carry on the business.

SOUTH HAVEN, MICH.—The State Horticultural Society will meet here August 21-23.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant ads. not admitted under this head.

SITUATION WANTED—By practical florist, German, single, age 37; first class references. Address H. P., care American Florist.

SITUATION WANTED—As florist, by married man. State wages. Address J. LEE, 627 Oak St., Kalamazoo, Mich.

SITUATION WANTED—Well up in growing roses, cut flowers and general stock; age 30; good references. K. G., care American Florist.

SITUATION WANTED—By florist; 9 years experience; private or commercial; age 20. Best of references. EMIL SMITH, 746 E. Green St., Louisville, Ky.

SITUATION WANTED—By first class storeman; can take full charge of same; 15 years' experience. Perfect decorator, designer and salesman. Address D. ZIMMERLE, San Francisco, Cal.

SITUATION WANTED—By a young man 17 years old to learn the florist business; has some experience in small greenhouse. JAMES S. FRY, Littitz, Lancaster Co., Pa.

SITUATION WANTED—By florist; German; 10 years' experience in growing roses, carnations, violets and mums. Best of references. Address E. H. S., care American Florist, Chicago.

SITUATION WANTED—Commercial or private; age 32, single, American; 8 years' experience; good references. Near Chicago preferred. LOCK BOX 215, Oval City, Stark Co., Ohio.

SITUATION WANTED—By competent, single florist and gardener; well posted. Please give full particulars in answer. Address Wm. B. K., 728 Spring Garden St., Phila., Pa.

SITUATION WANTED—By a first-class German gardener Sept. 1; 16 years' experience. Either private or commercial place. Address M. S., care Mr. Boettcher, 1649 N. Clark St., Chicago.

SITUATION WANTED—As foreman on a commercial place, where a first-class wholesale or retail business is done. Life experience in the trade. Address C. M. 125, care of A. Helen, Graceland Cemetery, Chicago.

SITUATION WANTED—By a practical grower of 12 years' experience. Well posted in all branches. Has had charge of private and commercial places; best of recommendation. Please state particulars. GROWER, care American Florist.

SITUATION WANTED—By thorough experienced and practical glazier and painter in a good firm; has good knowledge of carpentering and packing, and would fill up time in any capacity; state wages. D. W., box 46, East Cleveland, Ohio.

SITUATION WANTED—By a young German florist, commercial or private; 7 years' experience in forcing of bulbs and growing of palms. Can furnish good reference. Address RICH. KOENIG, 17 E. Washington St., Indianapolis, Ind.

SITUATION WANTED—By young man with 8 years' experience in growing cut flowers and a general line of plants. First-class designer and decorator. Best of references. Address C. B. K., 317 N. Vermillion St., Danville, Ill.

SITUATION WANTED—Young man with some experience in greenhouse and cut flower work would like to engage with first-class florist to advance further. Central or South preferred. Address ANXIOUS, care American Florist, Chicago.

SITUATION WANTED—By Sept. 1st or 15th, by boy of 21, as bookkeeper and general assistant in greenhouse or store; also designer; acquainted with names, culture, etc.; have had experience. Good references. Address BOY, care American Florist.

SITUATION WANTED—By a practical florist, fully posted on all the requisites of commercial places, including the nurseries, general propagation, etc.; wishes a situation where executive ability and experience is required. For particulars address FLORAL, care American Florist.

SITUATION WANTED—By a Scotchman as gentleman florist; will take entire charge of a gentleman's place; has been superintendent to J. B. Pace, Esq., of Richmond, Va., for the past 5 years; am married, wife and one child, age 33 years; will be obliged to any seedsman or florist if he can help me get a good situation. Address W. A. FORSYTH, Supt. to J. B. Pace, Keawick, Albemarle Co., Va.

WANTED—Gardener and florist for private greenhouse and grounds. Address J. C. EASTON, La Crosse, Wis.

WANTED—One No. 16 or 17 Utchings boiler, second hand; must be in good condition and cheap. C. W. DE PAUW, New Albany, Ind.

WANTED—A young man experienced in growing roses, carnations and a general stock, also good designer and decorator; must have a No. 1 references and not afraid of work; one with small capital preferred; one capable of taking entire charge. Chance of a lifetime for right man. Address PALMS, care American Florist.

FOR SALE—Two 9-section Chrmody boilers, cheap. GEO. SOUTER, Elgin, Ill.

FOR SALE CHEAP—Large second-hand florist's Ice Box, value about \$75. VAUGHAN'S SEED STORE, 88 State Street, Chicago.

FOR SALE—Double "Florida" steam boiler No. 63; good as new; a great bargain. Address A. S. EWING, Chillicothe, Ohio.

FOR SALE OR RENT—Greenhouse, 2000 square ft. glass. For particulars inquire of THEO. NOERLE, Green Bay, Wis.

FOR SALE OR RENT—15,000 or 30,000 square ft. of glass. For particulars inquire of A. T. JACKSON, Station X, Chicago.

FOR SALE CHEAP—A first-class florist business in a thriving town of 25,000 inhabitants. For particulars address WISCONSIN, care Am. Florist.

FOR SALE—No. 5 Scollay boiler, used only 3 winters, all in good condition; reason for selling, having put in 40-horse steam boiler; price on application. J. B. FELTROUSEN, Schenectady, N. Y.

FOR SALE CHEAP—Large, new hard wood and glass florist's Refrigerator. Used at World's Fair. Price reduced to \$175. VAUGHAN'S SEED STORE, 146 & 148 West Washington St., Chicago.

FOR SALE—Flower store with greenhouse; best location in city; well established in refined neighborhood. Going out of city. Must sell at once. Address STORE, care American Florist.

FOR SALE—Complete file Am. Florist, 9 Vols. 5 bound and 1 binder; also 1 10-H. P. upright boiler, 1,000 feet 1-inch pipe, 200 3x6 sahes, 1,200 1x12 lights of glass. Wm. H. BARNES, Box 845, Independence, Kans.

FOR SALE—In northern Indiana, greenhouse plant of 5,500 feet of glass in greenhouses and sash, 1½ acres land, good general stock of plants, roses, carnations and chrysanthemums; greenhouses and house heated with steam. INDIANA, care Am Florist.

FOR SALE.

Greenhouse plant 7 miles from center of Chicago in one of its finest suburbs; 3 houses 3x11, one 12x20. Hot water; established all-round retail trade; good winter stock. Long house and ground lease, or will sell entire. A great bargain. Address BOX 10, care American Florist.

FOR SALE OR RENT.

Two large greenhouses 100 feet long by 18 feet wide, containing 5000 feet of glass; built two years ago, with all modern improvements, by the late John F. Nitterhouse, practical florist. Greenhouses situated ½ mile from town; convenient to two railroads, and stocked with roses, carnations, etc. Possession given Oct. 1st. For further particulars address MRS. S. J. NITTERHOUSE, Waynesboro, Franklin Co., Pa.

For Sale or Rent.

One of the largest and most successful plants in the State of Ohio, consisting of about 50,000 feet of glass, with three or six acres of fine land; houses all in the best of order, and as good as new; adapted to cut flowers. Reasons for selling, the increasing demand for the Standard Ventilating Machines demands more of my time than I can possibly give it and run the florist business. For particulars address E. HIPPARD, Youngstown, Ohio.

FOR SALE.

Six (6) greenhouses, two hot water boilers, about 2000 feet 2-inch wrought iron pipe, valves, etc., lot of hotbed sash, frames, benches and about 35,000 flower pots. The entire plant will be sold at a very low cash price, as the whole must be removed off the premises before Sept. 1st. For particulars address L. R. MUNN, Station C, Brooklyn, N. Y.

FRITZ KLEIN.

Who can give me any information in regard to Fritz Klein, gardener, of Naurod, near Wiesbaden, Germany? The last was heard of him at Boston in the year 1873; since then he was not heard of. Information about him will kindly be sent to.

MR. F. SEULBERGER, Seedsman and Florist, 509, 511 & 513 Seventh St., Oakland, Cal.

FOR SALE.

A VALUABLE 28-ACRE FARM, WITH GREENHOUSE AND LARGE AND PROFITABLE TRADE ESTABLISHED.

The residence of the late Mr. E. G. Bridge, delightfully situated on Washington St., in the city of Woburn. The buildings consist of a small two-story house of 6 rooms, with shed and storeroom connected; house is painted, blinded and in perfect order, supplied with city water; good barn, with cellar, hennery, ice house, shed and silo buildings.

FIRST-CLASS MODERN STYLE GREENHOUSE.

125x20 feet, built in the most approved style, with large boiler and hot water connections, and the foundations ready for another large house.

The grounds are stocked with 5,000 of the choicest kinds of Pinks. Also Asters, Roses, Shrubs and Hardy Plants (for which there are large orders for future delivery), and the trade can be doubled in one year. The land is beautifully situated, commanding a large street frontage, suitable for building lots, and has fruits of all kinds, shade trees, and Electric Line to pass the property; a large amount of choice white "Pinks" are being sold every day.

OVER \$3000 HAVE BEEN EXPENDED on the greenhouses and Plants in order to make it the leading place of its class in the county. Owing to the sudden death of the late owner, we offer this entire property for \$6,000.

J. L. NASON & CO.,

21 School St., BOSTON, MASS.

FLORAL DESIGNS

The Cut Flower Worker's Friend. Fine book of 160 pages. Send \$3.50 for it, to J. HORACE McFARLAND, Harrisburg, Pa.

You will benefit the American Florist by mentioning it every time you write an advertiser in these columns.

THE AMERICAN FLORIST

Subscription \$1.00 a Year. To Europe, \$2.00.

Advertisements, 10 Cents a Line, Agate;
Inch, \$1.40; Column, \$14.00.
Cash with Order.

No Special Position Guaranteed.

Discounts, 6 times, 5 per cent; 13 times, 10 per cent;
26 times, 20 per cent; 52 times, 30 per cent.
No reduction made for large space.

The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to those lines ONLY. Please to remember it.

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

Advertisements must reach us by Monday to secure insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

Coming Exhibitions.

- ATLANTIC CITY, N. J.—Trade exhibition Society of American Florists. G. C. Watson, Sup't of exhibition, 1025 Arch St., Philadelphia, Pa.
- LENOX, Mass., Sept. 4-6. Annual exhibition Lenox Hort. Society. A. H. Wingett, Sec'y.
- BOSTON, Sept. 5-6. Annual exhibition of plants and flowers Mass. Hort. Society.
- CHICAGO, Nov. 3-11. Chrysanthemum show Hort. Society of Chicago. W. C. Egan, Sec'y, 620 Dearborn Ave.
- NEWPORT, R. I., Nov. 6-8. Chrysanthemum show Newport Hort. Society. Alex MacLellan, Sec'y, Ruggles Ave.
- BOSTON, Nov. 6-9. Chrysanthemum show Mass. Hort. Society. Robt. Manning, Sec'y, Horticultural Hall.
- PITTSFIELD, Mass., Nov. 6-9. Chrysanthemum show Berkshire County Gardeners' and Florists' Club. W. M. Edwards, Sec'y, 103 Howard St., Pittsfield.
- ST. LOUIS, Mo., Nov. 6-9. Chrysanthemum show St. Louis Florists' Club. E. Schray, Sec'y, 4101 Pennsylvania Ave.
- INDIANAPOLIS, IND., Nov. 6-10. Chrysanthemum show Society of Indiana Florists. W. G. Bertermann, Sec'y, 37 Massachusetts Ave.
- PHILADELPHIA, PA., Nov. 6-10. Chrysanthemum show Pennsylvania Hort. Society. D. D. L. Farson, Sec'y, Horticultural Hall, Broad St.
- LOUISVILLE, KY., Nov. 6-10. Chrysanthemum show Louisville Florists. H. Nanz, Sec'y, 582 Fourth Ave.
- DENVER, COLO., Nov. 7-10. Chrysanthemum show Denver Florists' Club. Adam Kohankie, Sec'y, L.B. 375, So. Denver, Colo.
- PROVIDENCE, R. I., Nov. 8-10. Chrysanthemum show Rhode Island Hort. Society. C. W. Smith, Sec'y, 61 Westminster St.
- MONTREAL, Nov. 12-14. Chrysanthemum show Montreal Gardeners' and Florists' Club. Fred Bennett, Sec'y, 62 Aylmer St.
- BALTIMORE, Nov. 12-17. Chrysanthemum show Gardeners' Club of Baltimore. Wm. McRoberts, Jr., Sec'y, 304 W. Madison St.
- Worcester, Mass., Nov. 13-15. Chrysanthemum show Worcester County Hort. Society. Edw. W. Lincoln, Sec'y.
- TORONTO, ONT., Nov. 13-16. Chrysanthemum show Toronto Gardeners' and Florists' Ass'n. A. H. Ewing, Sec'y, 85 Carlton St.
- SPRINGFIELD, Mass., Nov. —. Chrysanthemum show Hampden County Hort. Society. W. F. Gale, Sec'y, 23 John St.
- MILWAUKEE, Wis., Nov. —. Chrysanthemum show Milwaukee Florists' Club. A. Klokner, Sec'y, 219 Grand Ave.
- HAMILTON, ONT., Nov. —. Chrysanthemum show Hamilton Agric. Society. Walter H. Bruce, Sec'y.

[Secretaries will confer a favor by supplying dates as soon as decided upon. We shall be glad to know of any further shows decided upon and not included in our list, even if exact date is not yet determined.]

ROSES FOR FORCING.

Extra strong 3-inch Brides, Mermets, Hostes and Perles Fine Bridesmaid and Beauty in 2½-inch deep rose pots. All at \$5.00 per 100. Honest samples sent at same price.

W. J. & M. S. VESEY, 90 Thompson Ave., Fort Wayne, Ind.

Primula Chinensis.

Fine, healthy plants, 3¼-inch pots, best varieties, \$8.00 per 100; 2¼-inch pots, \$4.00 per 100.

Carnations.

Ready September: Grace Wilder, \$6 per 100; Daybreak, \$7 per 100. Strong, healthy plants.

W. A. BOCK, North Cambridge, Mass.

When writing mention the AMERICAN FLORIST.

WE ARE MAKING A SUMMER HIT!

Try us on **Cut Flowers** and see if we cannot substantiate our claim.

Best Stock for Least Money! 

 Remember our Choice American Beauties!

Carefully packed to ship to any part of the country.

REINBERG BROS.,

51 Wabash Avenue,

CHICAGO.

"It's easy to get a picture of a floral piece taken, and don't cost much either."

This has been told us very many times. A trial shows quite different. The conceded perfection so noticeable in

Long's Florists' Photographs

was achieved only by wearisome, energetic attempts spread over a long period of effort, and entailing much expense. Catalogue to be had of

DAN'L B. LONG, Publisher, Buffalo, N. Y.,

CORBREY & McKELLAR,

Wholesale and Commission Florists,

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64 & 66 Wabash Ave., CHICAGO.

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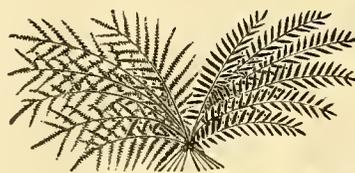
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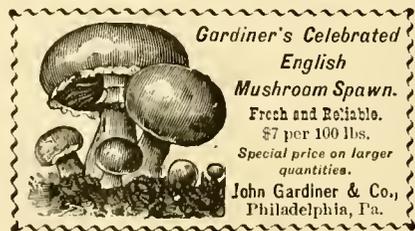
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 Fine crop now ready, per 100 \$10.00;
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Roses	per 1000 \$5.00@10.00
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Asparagus 25.00@35.00
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Valley 4.00
Smilax 10.00@12.00
Asparagus 50.00
White Japan lilies 4.00@ 6.00
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Cornflower 25c@ .50
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Rosea, La France, Meteor 3.00@ 4.00
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" Kaiserin 3.00@ 4.00
" General assortment, per 1000 \$5@10
Carnations, long 25c@ .60
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Auratum lilies 6.00@ 8.00
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ST. LOUIS, Aug. 20.

Roses, Perles, Niphetos, Wootton 2.00@ 3.00
" Bride, Mermet, Bridesmaids 2.00@ 3.00
" Meteora	..... 2.00@ 3.00
" La France, Albany, Hoste	..... 2.00@ 3.00
" Beauty	..... 5.00@15.00
Sweet peas	..... 15c@ .25
Carnations, long	..... 50c@ .75
" short	..... 50
Adiantum	..... 1.25
Hollyhocks, asters	..... 50

BUFFALO, Aug. 18.

Roses, Beautica 10.00@15.00
" Mermet, Bride 3.00@ 4.00
" Perles 3.00
" Gontier, Hoste 3.00
Carnations 75c@ 1.00
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Lanceifolium lilies (outdoor) 5.00@ 5.00
Gladiolus 50
Sweet peas 20
Valley 3.00
Asters 1.00
Adiantum 1.25
Smilax 15.00@20.00
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 New England Agent for the GREAT ANTIPEST.

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CUT SMILAX.
 15 cents per String.
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 For 1894
IS NOW READY.
 Price \$2.00.
AMERICAN FLORIST CO.

FOR HIGH CLASS SUMMER TRADE.
 THE LEADING FAVORITES.

American Beauty,
Meteor,
La France,

And all other desirable roses, grown especially for summer shipping to sea-side and mountain resorts.

BURNS & RAYNOR,
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AUTUMN, WINTER.

In dull season and busy season.
 All the year round.

Roses, Lily of the Valley

and all other choice stock
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Roses Shipped to all points. Price list on application.
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The Seed Trade.

AM. SEED TRADE ASSOCIATION.

D. I. BUSHNELL, St. Louis, president; S. E. BRIGGS, Toronto, 1st vice-president; A. L. DON, 114 Chambers street, New York, secretary and treasurer.

Mr. ROBERT BUIST is in Europe.

Mr. JOHN BUCKBEE was in Holland August 1st.

BULBS AND SEEDSMEN'S TRADE displays were well arranged at Atlantic City.

THE PRICES of mixed hyacinths have advanced in Holland. Tulips are still plenty.

WESTERN PRICES on onion sets seem to start in low. The eastern crop is reported a fair one.

DUBUQUE, IOWA—W. A. Harkett is making extensive improvements on his place at Hill and W. 5th street.

Mr. WM. F. DREER took an active part in the Atlantic City convention. Mr. Z. De Forest Ely also did good committee service.

ELIZABETH, N. J.—Henry Doe, the oldest nurseryman and florist in Elizabeth, died at his home in that city August 12. Mr. Doe, who was 69 years old, had been engaged in the business for 49 years. He leaves a widow and five children.

Smilax Plants cheap.

Out of 2 and 3-inch pots, also transplanted plants out of boxes. Never had as fine and large stock before. Please state number you desire and I will give you the lowest prices. Safe delivery and best satisfaction guaranteed with every shipment. Sample order 10 cts. Terms strictly cash.

Address FRED SCHNEIDER, Wholesale Florist, Wyoming Co., ATTICA, N. Y.

Hybrid Cypripediums

FOR SALE CHEAP.

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Also 100 well colored Pandanus Veitchii, averaging about 10 in. \$30. For particulars, write

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ROSES. Extra Cheap TO MAKE ROOM.

We will offer for the NEXT FEW WEEKS some of the best Roses in cultivation.

- Sunssets,
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- Duchess of Albany,
- La France,
- Souper,
- White La France,
- Brides,
- Gontiers,
- Meteor,
- Bridesmaid,
- Perles,
- Ulrich Brunner,
- Am. Beauties, 2½-in. \$5.00; 3-in. \$6.00

From 2½-inch pots, \$3.50.

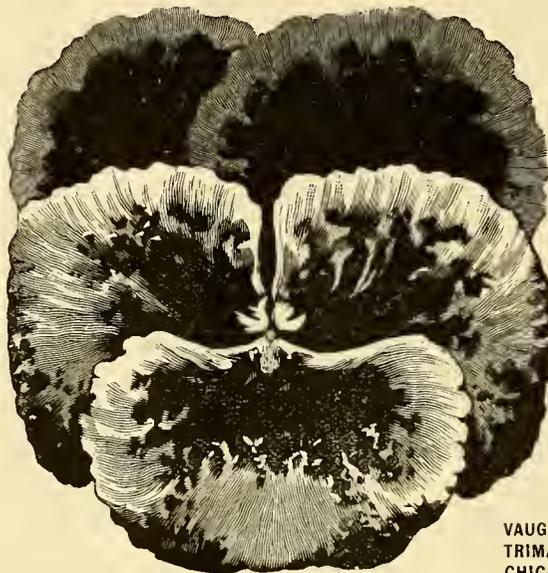
From 3-inch pots, \$5.00.

Satisfaction guaranteed. Wholesale Catalogue FREE.

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Put up, named and sold by us for the past four years, from the best strains produced in Europe and America.

It is generally admitted that we have had the unest show of Pansies on the grounds of the World's Columbian Exposition, and for these we received the only award for mixed Pansies.

No other firm is authorized to offer our Vaughan's International Mixture, and those using this name to sell other mixtures, are "imitators." The genuine can be had in our packages only.

The new crop seed secured in Europe this season by one of our firm is now in our stores, and orders can be filled immediately from New York or Chicago.

Trade pkt. 50c; ¼ oz. \$1.50; oz. \$10.00.

Also —
VAUGHAN'S GIANT MIXTURE, ½ oz. 60c; oz. \$4.00
TRIMARDEAU IMPROVED, ¼ oz. \$1.00; oz. \$3.50
CHICAGO PARKS BEDDING, oz. \$1.00.

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Buy FIRST HAND. We will deliver Freesia Bulbs, all charges for transportation paid, as follows:

3-8 to 3-4 inch per 1000, \$4.00

1-4 to 5-8 inch per 1000, \$3.00

Liberal discount on larger lots. Send for our price list.

Order NOW your Japan Bulbs, Longiflorum, Auratum, Rubrum, Album, we are Headquarters. We are the ONLY FIRM in the U. S. who guarantee you SOUND BULBS delivered.

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YOUNG PALMS FOR FLORISTS' USE CHEAP TO MAKE ROOM.

	Size pots.	Height.	Per 100
Kentia Belmoreana	3-inch	12 to 15 in.	\$20.00
Forsteriana	3-inch	18 to 20 in.	20.00-25.00
Areca Baureri	3-inch	18 to 24 in.	25.00
Senforthia elegans	3-inch	18 to 24 in.	20.00
Phoenix recinata	3-inch	8 to 10 in.	20.00
Pandanus utilis	2½-in.	8 to 10 in.	15.00

All stock is in healthy condition and ready for shifting on. 50 at 100 rates. MENDENHALL GREENHOUSES, Minneapolis, Minn.

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ZIRNGIEBEL GIANT PANSIES.

Owing to favorable weather, have been magnificent this season. Never before have we obtained such size and colors; and as usual, wherever exhibited, have eclipsed everything else, receiving also the most flattering testimonials from the leading florists and seedsmen all over the country.

New seed ready now of both the Giant Market and Giant Fancy in trade packets of 2,000 and 500 seeds respectively at one dollar each, with practical directions for growing pansies.

PLANTS READY NOW:

GIANT MARKET . . . \$5.00 per 1000
GIANT FANCY 20.00 per 1000

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PANSIES...

Every Grower Claims the Best.

I am willing to have mine tested alongside of any in the market. Over a thousand florists used them last season, were pleased with them and made money out of them.

Between Sept. 1st and Dec. 1st I will have a MILLION or more plants to sell. They can not be offered in competition with cheap grown seed, but quality considered, are remarkably cheap at the price.

By Mail or Express, prepaid, 75c. per 100; by Express at your expense, \$5.00 per 1000. Liberal discount will be allowed on large orders.

An honest sample of the plants will be mailed you on receipt of ten cents, and terms are absolutely cash in advance.

ALBERT M. HERR, L. B. 496, Lancaster, Pa.

Pansy ★ Seed.

The JENNINGS STRAIN of high grade Pansy Seed. New crop now ready. Saved with special care from only the very finest varieties and (warranted) first-class in every respect.

THE JENNINGS XX STRAIN.

The cream of Pansies. Grand colors mixed. pkt., 1500 seed, \$1.00; 1 oz. \$3.00.

The Jennings Strain, finest mixed, pkt. \$1.00 about 2500 seed; 1 oz. \$3.00; 3 ozs. \$15.00. No strain milk in this strain. (They are just as good as I can make 'em). To my old patrons I would say they are a big improvement over last season—more variety and finer colors. The best strain for florists either for winter bloom or spring sales; all large flowering.

Black Tr. Faust, finest, pkt., 2500 seed, \$1.00
Finest Yellow, black eye, " " 1.00
Pure White, the best, " " 1.00
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All my own growth of 1894. Half pkts. of any of the above 50c. Please send money orders or registered letter. Cash with order. Address

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Roemer's Superb Prize Pansies.

The finest strain of Pansies in the World.
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FIRST QUALITY LILY of the VALLEY,
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EXTRA PANSY SEED.

MAMMOTH SUNBEAM STRAIN.

A grand collection of giant flowering varieties, very large, of perfect form, and choice colors; carefully selected; better seed plants this year than ever; receive very high praise from my customers; no finer strain offered anywhere; florists should sow of it.

Trade pkt., 500 seeds, 25c; 3 pkts. 60c; 6 pkts. \$1.00. A pkt. of the new Monkey Face pansy with every \$1 order.
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Special offer of varieties and sizes that can be supplied in large quantities and are of exceptional good value.

ARECA LUTESCENS.

3-inch pots, 12 to 15 inches high. \$ 1.50 per dozen; \$ 12.00 per 100
6-inch pots, 24 inches high, 3 plants in a pot 12.00 " 100.00 "

SPECIMEN PLANTS OF ARECA LUTESCENS.

9-inch pots, single stems, fine plants for decorating, about 6 feet high. \$ 7.50 each
9-inch pots, single stems, with several good side branches, about 6 feet high 10.00 each
12-inch pots, beautiful, perfect specimens in every respect, clean, well-formed plants of very good value. 15.00 each

12-inch pots, a grand lot of bushy specimen plants, clean, well-grown stock in every respect, a special lot of plants, about 7 feet high, at 20.00 each

COCOS WEDDELIANA.

A grand lot of plants, in 3-inch pots, well-grown, stocky and of good color, 12 to 15 inches high \$3.00 per dozen; \$20.00 per 100

Kentia Belmoreana. Per doz.

5-inch pots, 6 leaves, 24 inches high \$15.00
6-inch pots, 6 leaves, 24 to 30 inches high. 18.00

Each

8-inch pots, 6 to 7 leaves, 30 inches high . . . \$ 3.00

8-inch pots, 6 to 7 leaves, 48 inches high . . . 5.00

9-inch pots, 6 to 7 leaves, 48 to 54 in. high . . 7.50

12-inch pots, 7 leaves, 60 inches high. 15.00

Kentia Forsteriana. Per doz.

3-inch pots, 4 leaves, 15 inches high \$ 2.50

5-inch pots, 5 to 6 leaves, 24 to 30 in. high . . 12.00

5-inch pots, 5 to 6 leaves, 30 to 36 in. high . . 15.00

6-inch pots, 6 leaves, 36 inches high 18.00

Each

7-inch pots, 7 leaves, 42 inches high . . . \$ 3.00

9-inch pots, 6 to 7 leaves, 60 inches high . . . 7.50

12-inch pots, 6 to 7 leaves, 72 inches high. . . 10.00

Latania Borbonica.

A grand lot of plants in 3-inch pots, 4 to 5 leaves, ready to pot up, \$8.00 per 100. Per doz.

6-inch pots, 24 inches high. \$12.00

7-inch pots, 24 to 30 inches high 15.00

8-inch pots, 30 inches high. 18.00

Pandanus Utilis.

2½-inch pots, fine stock for potting up, 75 cts. per dozen; \$6.00 per 100; \$50.00 per 1000.

Araucaria Excelsa.

Largest stock in the country. Each

5-inch pots, 3 tiers, 15 inches high \$1.25

6-inch pots, 4 tiers, 18 inches high 1.75

6-inch pots, 4 tiers, 24 inches high 2.50

7-inch pots, 5 tiers, 30 inches high 3.00

8-inch pots, 6 to 7 tiers, 36 inches high 5.00

Dracæna Braziliensis.

A fine lot of this useful decorative variety, strong plants in 4-inch pots, 15 to 18 inches high, at \$2.00 per dozen; \$15.00 per 100.

For a complete list of **Decorative Plants**, such as Palms, Ferns, Dracænas, Cycas, Pandanus, etc., etc., refer to our Quarterly List, mailed on application. Our stock this season is of exceptionally fine quality, and is complete as to assortment of sizes.

HENRY A. DREER,

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PHILADELPHIA, PA.

Prices Lower Than Ever.

Ready for shipment from July to September.

Calla Aethiopica, fine dry roots in all sizes.

Lil. Longiflorum, ready for shipment from October 1st to March 15, 1895.

Lil. Auratum, Spec. Rubrum and Album, Etc.

Iris Kæmpferi, in 100 choice varieties.

Japanese Maples, in best varieties.

Gamelias, Pæonies, Tree Ferns, Raphis, Cycas

Revoluta, superb growing plants with fine foliage from 25 cents to \$5 each; fresh imported stems, true long leaf variety, roots and leaves cut off, delivered from March, 1895.

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NEW CROP NOW READY. Very fine mixture of large flowering varieties and choice colors, especially selected for florists' use. 1 oz. \$3.00.

NEW GIANT PRIZE PANSY, finest strain in the market. 1 oz. \$5.00.

Low prices on Liliun Harrisii, Longiflorum, Roman Hyacinths, Lily of the Valley, etc.

Special low prices on Rustic Baskets.

HERRMANN'S SEED STORE,

413 EAST 34TH STREET,

Near Long Island Ferry, NEW YORK.

FOR BULB SPECIAL

See page 1175 July 5th number of the AMERICAN FLORIST.

W. A. MANDA,

The Universal Horticultural Establishment, SOUTH ORANGE, N. J.

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MICHEL PLANT AND BULB CO.,
ST. LOUIS, MO.

Tuberous Begonias

(GRIFFIN'S STRAIN.)

Plants in bloom, all sizes, at lowest prices.

OASIS NURSERY CO.,

Thos. Griffin, Mgr. Westbury Station, L. I., N. Y.

SMILAX.

Plants from last fall; these have a foundation and will begin to run strong at once. \$2.50 per 100; \$20.00 per 1000.

CLEMATIS for Fall Delivery.

Special prices at wholesale, on application. Splendid stock and assortment.

F. A. BALLER, Bloomington, Ill.

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London, Ont.

A. G. Stephens, with J. Gammage & Sons, has bought some property, and will shortly build and start in business.

Business is somewhat better than usual at this season; what with dry weather and the grasshoppers outdoor stuff is becoming short. Carnations are looking well considering the very unfavorable season. Chrysanthemums all around are in much better shape than usual; every one apparently making an extra effort.

Mr. C. M. Greenway, late of Grand Rapids, Mich., will shortly open the store formerly occupied by J. Dilloway, who was recently sold out.

W. R. Shelmire,
AVONDALE,
Chester Co., PA.
CARNATIONS
AND **COLEUS.**

25,000 FIELD GROWN
CARNATIONS

MRS. FISHER, SILVER SPRAY,
LIZZIE MCGOWAN, GRACE WILDER,
TIDAL WAVE, MRS. F. MANGOLD,
HECTOR, and FLORENCE,
\$6.00 per 100; \$55.00 per 1000.
P. E. RICHWAGEN, box 56, Montvale, Mass.

"HELEN KELLER"
The new Carnation: pure white, delicately marked with red.
Price for well Rooted Cuttings:
\$3.00 per dozen; \$12.00 per 100; \$25.00 per 250;
\$50.00 per 1000, 500 at 1000 rate. Orders may be sent either to
JOHN N. MAY, EDWIN LONSDALE,
Summit, N. J. Chestnut Hill, Phila.

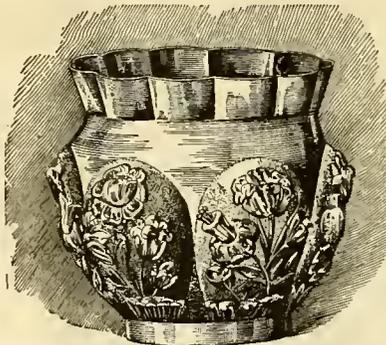
CARNATIONS FIELD GROWN.
E. G. Hill, Wm. Scott, Mrs. Reynolds, Silver Spray, Tidal Wave, Lizzie McGowan, Ben Hur, Mme. Diaz Albertini, White Dove, Garfield, Lam-born, Porta, Edna Craig, Fred. Dorner, Daybreak, Golden Gate, Mrs. Fisher, White Wings, Hinze's White, Blanche, Purdue, Louise Porsch, and other sorts. Marie Louise Violets. Low prices on application. JOSEPH HEINL, Jacksonville, Ill.
Mention American Florist.

CARNATIONS
Rooted Cuttings all sold or planted out. Field plants for sale in the fall.
C. J. PENNOCK,
The Pines. KENNETT SQUARE, Chester Co., PA.

THE COTTAGE GARDENS,
Queens, Long Island, N. Y.
WHOLESALE CARNATIONS.

TESTED and
NEW CARNATIONS.
FERNS.
FISHER & AIRD,
ELLIS, NORFOLK CO., MASS.

Carnations a Specialty
Rooted Cuttings and Young Plants sold out.
Nice Field-Grown Plants in Sept. Send for prices.
GEO. HANCOCK & SON, Grand Haven, Mich.



Silver Cup awarded us for Meteor Roses, exhibited at Madison Square Garden, 1892, for best 25 Red Roses of any variety.

Roses for Winter Flowering.

We still have fine stocks of the leading varieties,
AMERICAN BEAUTY,
KAISERIN AUGUSTA VICTORIA
AND BRIDESMAID,
Strong plants, out of 3 1/2-inch pots, ready for immediate planting, \$12.00 per 100.
METEOR, BRIDE, MERMET, MME. CUSIN,
NIPHOTOS, WOOTTON and PERLE,
Strong plants, out of 3 1/2-inch pots, ready for immediate planting, \$9.00 per 100.

F. R. PIERSON COMPANY,
Tarrytown-on-Hudson, N. Y.

Mention American Florist

Roses.

1000 MERMETS, 600 NIPHOTOS,
1000 BRIDES, 150 TESTOUTS.
All from 2 1/2-inch standard pots. These are in the very best of condition and as large as a great deal of the stock shipped from 3-inch pots.
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Samples free to intending purchasers.

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6-inch pots.....\$5.00 per dozen
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Roses, H. P. Roses, Rhododendrons, Azalea mollis, Clematis, Hydrangeas (bushy and tree form), Aucuba, Buxus, Acer in sorts, Viburnum plicatum, Dutchman's Pipe, Magnolias, etc.

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Boston.

The weekly free exhibitions of the Massachusetts Horticultural Society are proving immensely popular this season. For the space of two hours it was almost impossible to move round the hall on Saturday, August 10, so great was the crowd. The special features of the show were a grand collection of sweet peas and single petunias from A. A. Hixon, of Worcester, sweet peas from Oswald Ralph, gardener to John P. Spaulding, callunas from Joseph Clark, an extensive display of gladioluses from J. Warren Clark, a group of Cattleya Gaskelliana from Benj. Grey, twelve immense blooms of Cereus triangularis from Harvard Botanic Garden, perennial phloxes from Geo. Hollis, tuberous begonias from C. E. Weld, roses from F. B. Hayes, and native flowers from Mrs. P. D. Richards and others. The exhibit of fruit and vegetables was also far in advance of the average and unsurpassed in quality.

Part II of the transactions of the Massachusetts Horticultural Society for 1893 has been received. It contains a complete list of prizes and gratuities awarded during the year and full reports of all the committees, and makes an interesting volume of 405 pages.

An open letter addressed to the "President and Fellows of Harvard College, the Overseers of Harvard University, and the Board of Visitors to the Botanic Garden of Harvard University," has been widely circulated in this vicinity. The writer, Mr. John A. Allen, alleges discourtesy, incompetent management, and lack of botanical knowledge on the part of those entrusted with the care of the Botanic Garden, and demands the appointment of a commission to make a thorough investigation of the management of this institution.

EAST STROUDSBURG, PA.—The greenhouses and store of A. K. Savacool are in the hands of Frank Smith and Morton Decker, who held judgments against Savacool.

PORTLAND, ME.—E. J. Harmon found a man trying to break open his safe on the night of August 6. The thief leaped out of a window and escaped.

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FLOWERS

large, all fringed; brilliant colors.

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10	10	12	10	10	12
20	20	14	20	20	14
30	30	16	30	30	16
40	40	18	40	40	18
50	50	20	50	50	20
60	60	22	60	60	22
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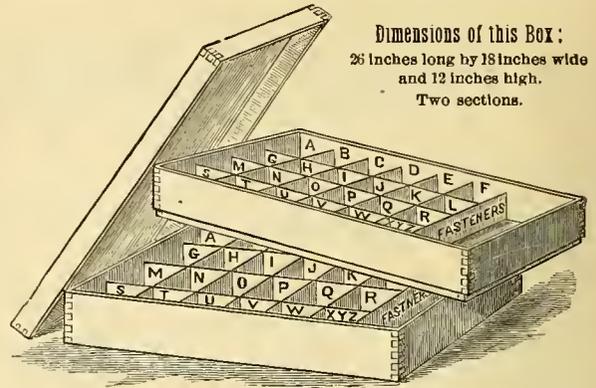
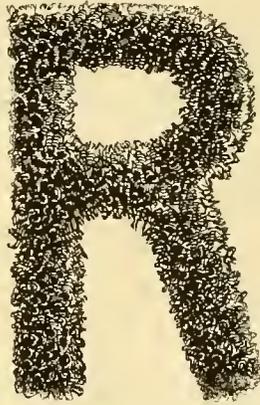
Worcester, Mass.

It is the same old story, good stuff plentiful, sales poor, prices low. Very good asters are coming in in large quantities, the Comet is especially fine. We have been troubled this season with a small black beetle, which eats the buds and flowers, and the little fellow is gifted with a voracious appetite; hand picking seems to be the only remedy.

Lange is cutting quantities of fine *Nymphaea rosea odorata*, which sell fairly well for one dollar a dozen, and also some splendid Mermets.

Gladiolus salpiglossis and cut flowers were called for the exhibition of August 16, but the gladiolus were postponed until August 30. The competition in the stands of cut flowers was very sharp, with a goodly lot of entries, and the quality of the stuff shown was excellent. Mrs. C. E. Brooks was awarded first and F. A. Blake second. There were also many fine stands of *salpiglossis*, which made a very attractive showing; for best stand, W. J. Wood first and H. B. Watts second. Mrs. A. A. Hixon exhibited a splendid table of petunias, among them some good California Giants; H. A. Jones, Mrs. Thos. Ward, H. M. Chace and S. E. Fischer had very good displays of cut flowers, arranged in good taste.

August 23 is the date of the aster show. SEEDLING.



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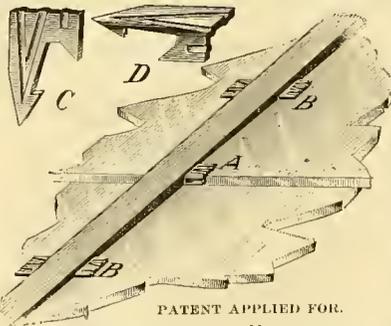


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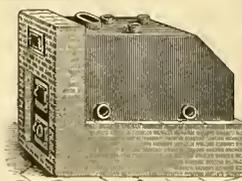
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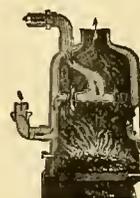
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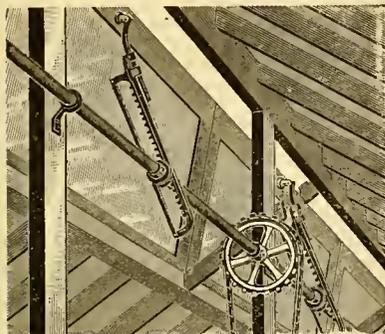
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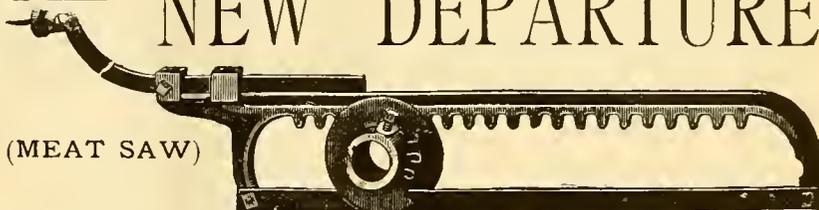


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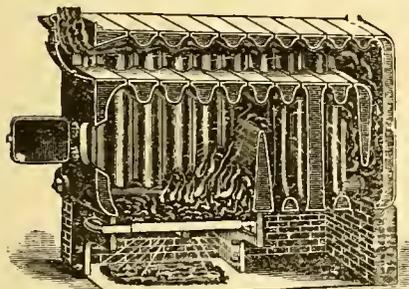
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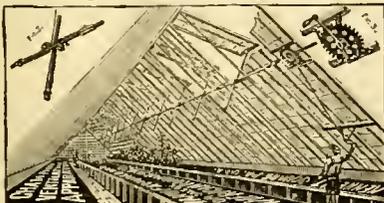
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Every florist, market gardener, owner of lawn, grass-plot or flower-bed, in fact everyone who has a faucet and hose should have the Kinney Pump (patent applied for) for applying liquid manure, fungicides and insecticides to plants. Feed your plants, fertilize your lawns by using liquid manure. The cheapest, simplest and most scientific spraying pump in use. Sent prepaid for \$2.50—spraying valve attachment 50c. Pump complete \$3.00. Send for circular. Address

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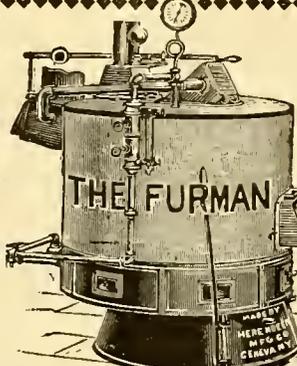
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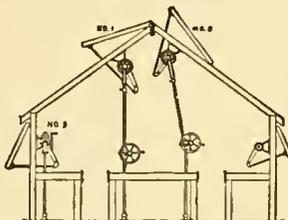
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Opens Sash uniform on 100 foot houses. A new device. Send for Catalogue and Estimates.

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We have in stock boilers new and second-hand, suitable for heating Greenhouses. Prices Low.

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Buffalo.

On the eve of the convention there is little to be said. We are mostly absorbed in thinking about the briny ocean and the good time in store for those fortunate enough to attend, still there will be lots of absentees. Several causes account for this, outside of those who scarcely ever attend, and who merely stop at home from indifference. There will be more than one absent from the best of causes, no funds. Business has perhaps been as dull this week as any during the year, but I have not heard a particularly loud grunt on that account.

The monthly meeting of the Florists' Club occurred at the residence of Mr. J. W. Constantine on August 14. There was a baker's dozen present and several things of local interest were vigorously discussed. Wm. Scott concluded the meeting with a paper which, if it had no other merit, deserved the attention of the members simply because it appealed to them to attend the national convention. He tried to impress on the members the great good our national society has done as well as the floricultural press, which he said never would have existed without our national society.

The Rochester ball players arrived here on Thursday last about 12 noon. We believe they were all horticulturists if not florists. The game was played in Franklin Park, and the result was 25 to 12 in favor of the Bisons. To the writer the game was most enjoyable, and he believes it was to all participants. After the game was over, when we were about to begin, more than half of the Rochester gentlemen insisted that they must take an early train and take the train they did, but that did not stop 30 or 40 young men going to the Parade House at 6 p. m. where soup, fish, turkey, etc. was in waiting. It would be folly to attempt to repeat all that was said. Mr. Fry of Rochester spoke finely for the Rochester men, as did several other of his townsmen. There was of course any amount of Buffalo talk. A Mr. Kendall of Ottawa, Canada, added much to the enjoyment of the evening by several good stories told in more polished style. Mr. Kendall was elected an honorary member of the Rochester and Buffalo florist clubs.

Harry Bunyard of Short Hills has been in town. W. S.

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2 1/2 " " "	4.00	9 " " "	75.00
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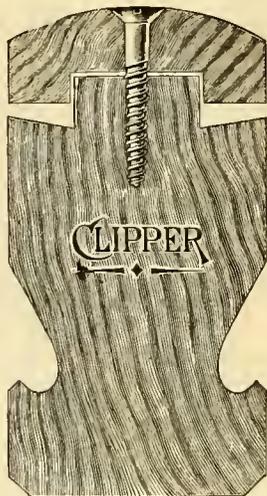
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EVANS' IMPROVED Challenge Ventilating Apparatus

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Announcement to Florists.

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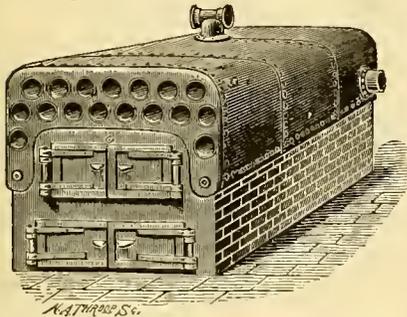
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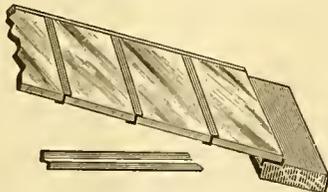
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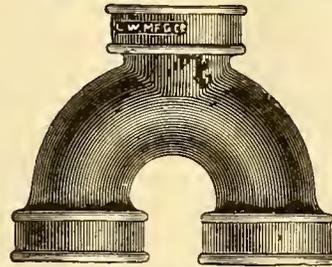
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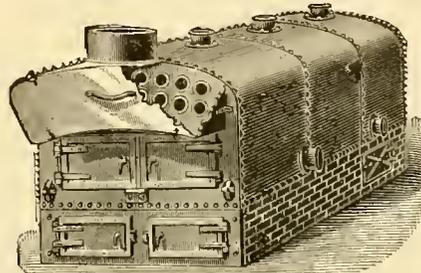
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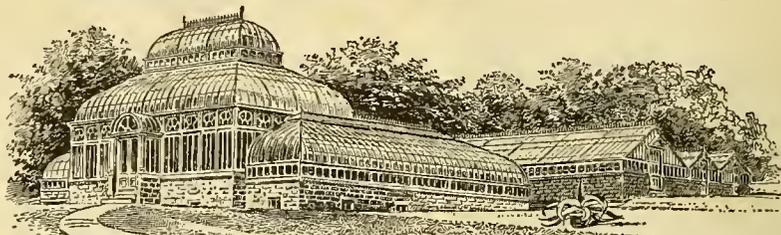
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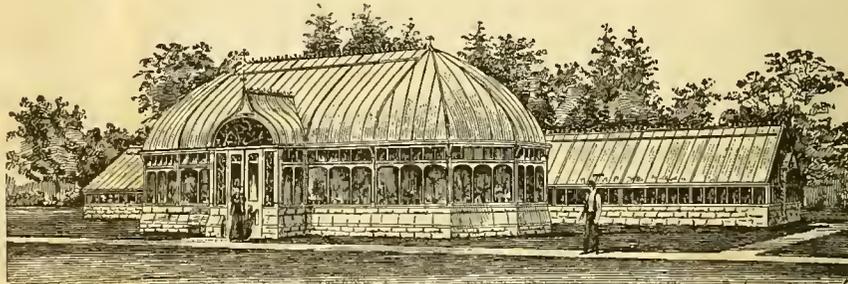
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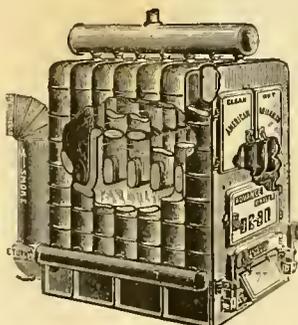
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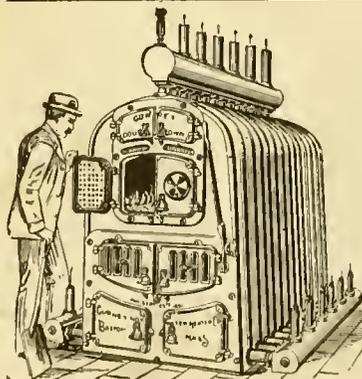
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THE AMERICAN FLORIST



America is "the Prow of the Vessel; there may be more comfort Amidships, but we are the first to touch Unknown Seas."

Vol. X.

CHICAGO AND NEW YORK, SEPTEMBER 1, 1894.

No. 326

THE AMERICAN FLORIST

Copyright 1894, by American Florist Company.
Entered as Second-Class Mail Matter.

PUBLISHED EVERY THURSDAY BY

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Subscription, \$1.00 a year. To Europe, \$2.00.

Address all communications to

AMERICAN FLORIST COMPANY,
P. O. Drawer 164, CHICAGO.

Eastern Office: 67 Bromfield St., Boston.

This paper is a member of the Associated Trade Press and the Chicago Trade Press Association.

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OBITUARY.

Louis Engel, the oldest florist in Canton, Ohio, died in that city very suddenly August 26. Mr. Engel was born in Hanover, Germany, in 1821, settling in Montreal in 1847. From Montreal he came to the States, finally settling in Canton in 1856, where he managed the greenhouses belonging to H. Meyers, corner Plum and Ninth streets, until he bought out the business in 1861.

Mr. Engel was greatly respected for his integrity and energy in business, and his establishment increased with the growth of the city. He leaves a widow and seven daughters.

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Entertainments at the Convention.

RECEPTION AT CARISBROOKE.

One pleasant feature of the convention was the reception given to the ladies at Ventnor, a place about three miles below Atlantic City, at the fine hotel called "Carisbrooke Inn" (named for a famous house in England). A merry party boarded the special train at Tennessee avenue, which brought them to the place after about 20 minutes' ride, where a pleasant entertainment had been provided. It was more like a large family gathering than a meeting of trade acquaintances. The guests dispersed themselves about the spacious porches and parlors, the musicians engaged soon making a lively background of sound for the rolling waters. Many of the friends enjoyed the beauties of the scenery from the high pavilion, attached by a private boardwalk to the "Inn." From this elevation the view is particularly grand and imposing, for nothing obstructs the vision for miles and miles on every side, and right at the feet rolls the always moving, never monotonous ocean. Those ladies inclined to besetimental sat down and murmured "What an ideal place to be courted in on moonlight nights, when no evening could be long enough," while others of more practical turn of mind descended to the boat houses beneath and soon emerged in the ever fascinating bathing costume with their admirers, determined to lose no opportunity for taking the invigorating sea bath. In the meantime the parlors were filled to overflowing with those who took their amusement in still different fashion, listening to the sweet strains of Mrs. Edwards' voice as she sung of the rejected lover being sent to "float out to sea."

The inevitable "camera man" with his "look pleasant" now came upon the scene and the group that arranged itself about the porch rail and steps was particularly picturesque, with the noble castle-like building for a background, a copy of which will be found in this issue. Refreshments were served in the dining hall or parlors, as one preferred, and as the time drew near for the train to make the return trip all present expressed themselves well pleased with the enjoyable visit and reception.

ECHOES OF THE BOWLING MATCH.

There have been bowling matches without number, but we doubt if there ever was a contest which created so much enthusiasm or one in which so much interest was taken by the players and spectators alike.

Bowling is a great game. There is no other indoor amusement in which so many players can take part at one time as ten pins; no matter how far behind one side may get they are liable by careful and lucky playing to get even with and pass their opponents, and this is one

of the features of the game that makes it so popular.

An audience ordinarily shows its appreciation of good or poor play in various ways, but in a ten pin match they go to extremes and these events are noted for the great din raised by the spectators. In this respect at least we feel safe in saying that this contest broke the record; it seemed for a time like a perfect pandemonium. Some one had procured a half dozen large tin horns, and as each seemed to be handled by a man with good lungs the noise was something frightful. But everything went; everybody was out for fun and all seemed to enjoy themselves hugely.

The clubs did not roll as drawn, as it seemed very hard to get the teams together on time. The first series of games was very exciting, the teams finishing in the following order: Buffalo 1, New York 2, Flatbush 3, Boston 4, Philadelphia 5, Washington 6, Pittsburg 7, St. Louis 8, Summit 9, Chicago 10. Between the second and sixth clubs there was but 17 points, while Buffalo led New York, the second club, 77 points.

There was a great deal of speculation and talk of what was going to be done the next game. Buffalo's lead was a good one, but "She can't keep up the pace," "We've pulled out of worse holes than this," and other like remarks were heard in several little groups. It's good bowling, however, that wins games, and while New York, Philadelphia and Flatbush improved considerably in their playing they did not bother Buffalo very much, and New York was the only club to pass them in this game, making 23 more pins. Philadelphia started out in their second game like thoroughbreds, Anderson making three strikes and all the others doing well. In the first four frames they had scored 385 points, which gait, if they could have kept it up, would have given them 962 pins, enough to have landed the Spaulding Cup and first prize. As may be supposed, the Phila. contingent were very much in evidence at this time. Ifs and buts, however, like the balls that come exasperatingly near making spares, don't win games, and at this juncture, for no good reason, Phila. went all to pieces and lost what chance they had for winning the Spaulding this year. First was won by Buffalo, with an average of 139 pins to a man in the two games.

It now began to look as if Buffalo was going to sweep the board; the first prize depended on the best score in the three games, and as they had a lead of 54 points over their nearest competitor, New York, and were in good shape, their chances looked very bright. New York set a very fast pace, but Buffalo was equal to the occasion and put up their best game, 871, thus winning by 51 pins, an average of 141 points to a man

in the three games. They were congratulated on all sides for their plucky rolling and well earned victory.

Mr. Mepsted of their team was tied with Mr. Leuly of the New Yorks for second prize for best average score in all games, and when this was discovered Mr. Mepsted had gone home. The tie was rolled off with Mr. P. Scott of same team and won by Mr. Leuly by 9 pins, 158 and 167 being the respective scores.

The other individual prize for highest score in any one game was won by Mr. Keppler of the New Yorks, he making 173 in the last game. Mr. Keppler also won the sterling silver cup for the best score in the three games, making 470 points.

Mr. Hale of the Washington Club, made a record, but for which no prize was offered; he made 3 fouls in one frame, thus losing each ball and counting nothing.

Falstaff Eddy covered himself with glory by winning the leather medal with a total score of 242. His great weight was probably too much of a load for his team to carry, as they finished last with a score of 1697.

It has been suggested that in future matches of this magnitude in point of numbers that all clubs that do not make 700 in their first game drop out; this is only an average of about 116 to a man. By adopting this plan the contest would not be so long drawn out and so tiresome to players and spectators. Several have suggested this plan, which is objected to by others, as they say a good player might be in one of the teams dropped and he would have no chance at the individual prizes.

George Anderson has an idea that each club should roll by themselves. He thinks that where there is a choice of alleys the lucky toss of the coin has considerable to do with winning the game. In this match the winner of the toss invariably took the number 3 and 4 alleys, they being the easiest to make scores on. He would start a club on No. 1 alley, then to 2, 3 and 4, and back to No. 1, 2, 3 and 4, finishing the game on No. 2. There would be very little confusion, and the scores could be kept more accurately. In this way each club would roll on all alleys alike and would be on the same footing in this respect.

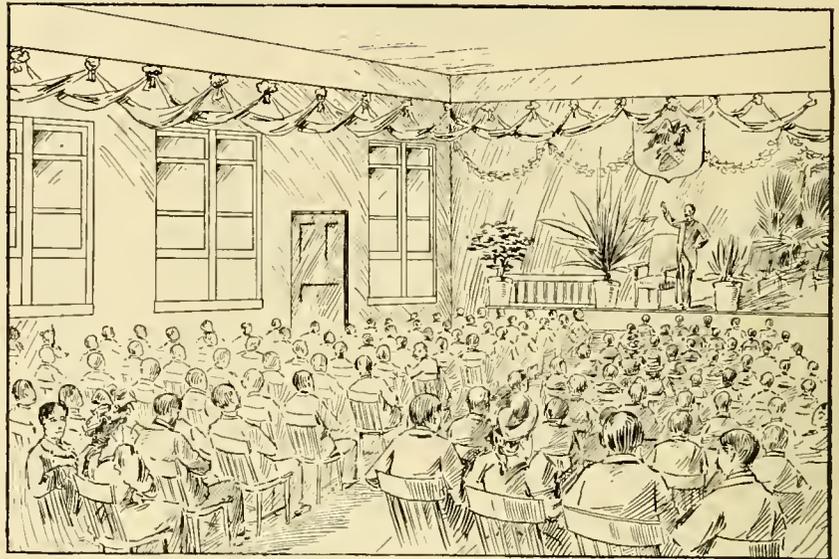
There were many very ludicrous scenes during the progress of the match. Nearly every bowler has a different style in starting his ball, and then his attitude in watching it until it strikes the pins, when he gives a little spring or sweeps his foot across the alley as if to help clear the board, or gradually raising one arm brings it down with a sudden stroke, or they make other movements which are neither ornamental or useful, but, like the noise of a wagon, it would seem as if they can't get along without them.

Falstaff Eddy put a ball down the gutter, but which, striking an obstruction, glanced across the alley and made a strike. He was quite indignant when the judges made him roll at another set of pins.

One of the Boston players got so excited that he wore his necktie down the middle of his back.

The following players passed the 400 line in their three games: Keppler 470, E. Leuly 458, Mr. Mepsted 458, P. Scott 457, L. Brown 439, W. Scott 436, G. Craig 433, J. R. Freeman 426, Mr. Dihm 426, P. Riley 423, W. A. Manda 421, J. Kroomerick 419, G. Bergman 409, J. Manda 403 and J. McRorie 401.

The individual tournament which was rolled on Friday morning had 26 entries.



PARTIAL VIEW OF THE CONVENTION HALL AT ATLANTIC CITY, WITH THE SOCIETY IN SESSION.

Robert Craig had almost to be dragged to the alleys to take part in this contest, as did George C. Watson, they both being busy at the exhibition hall. They were rewarded for their trouble by winning the first and second prizes, while hard working John Westcott won the third. The scores were 166, 155 and 150. The scores of the other contestants follow:

Peter McDonald.....	145
John Walker.....	140
Charles Kahlert.....	136
G. T. N. Cottam.....	128
J. Jones.....	128
J. P. Habermehl.....	128
P. Dailledouze.....	126
W. Graham.....	125
Julius Rohrs.....	123
F. Keller.....	122
A. Lutz.....	120
C. Longinette.....	122
G. McLean.....	115
H. Bayersdorfer.....	116
D. T. Connor.....	110
E. Lonsdale.....	109
F. Adlleberger.....	106
George Campbell.....	104
J. M. Keller.....	95
J. Dawson.....	91
George Rauch.....	85
Henry Siebrecht.....	83
J. Goldring.....	59

THE YACHTING CRUISE.

Lovers of the salt water were given a rare treat in the sail from the inlet out to sea on Friday morning. The fleet comprised about fifteen yachts, each carrying from twenty to twenty-five persons. The blue and white pennant of the Florists' Club of Philadelphia floated from each mast head, and the indefatigable members of the club committee worked like beavers. The only contrary factor was the wind, which persisted in blowing the wrong way, when it blew at all, but when the boats had finally got out past the bar plenty of wind was found and they flew along merrily. Musical talent was not wanting and this indispensable feature of the ideal boat ride received due attention. The boats returned to the wharf in time for the popular bathing hour. No seasick individuals were noticed, and a commendable bracing up on nautical phrases was perceptible in the general conversation during the rest of the day.

THE SHOOTING MATCH.

The shooting match was an innovation, and jumped at once into popularity. It passed off very pleasantly and we are glad to say without an accident, as was feared by some. A great deal of credit is due John Burton, who advanced the idea and carried it out to a successful conclusion.

The targets were clay pigeons, which were thrown from traps placed behind a wooden screen to protect the men who kept the traps filled. A rope led from each of the five traps, and as each contestant said "pull" a man back of the gunners pulled a rope releasing the targets. No. 1 trap threw to the right, No. 2 to the left, No. 3 straight away, No. 4 to the right and No. 5 to the left. Five men shot at one time, 5 rounds each; No. 1 shot and then moved to No. 2 trap, and so on until each had shot five, when another team took their place.

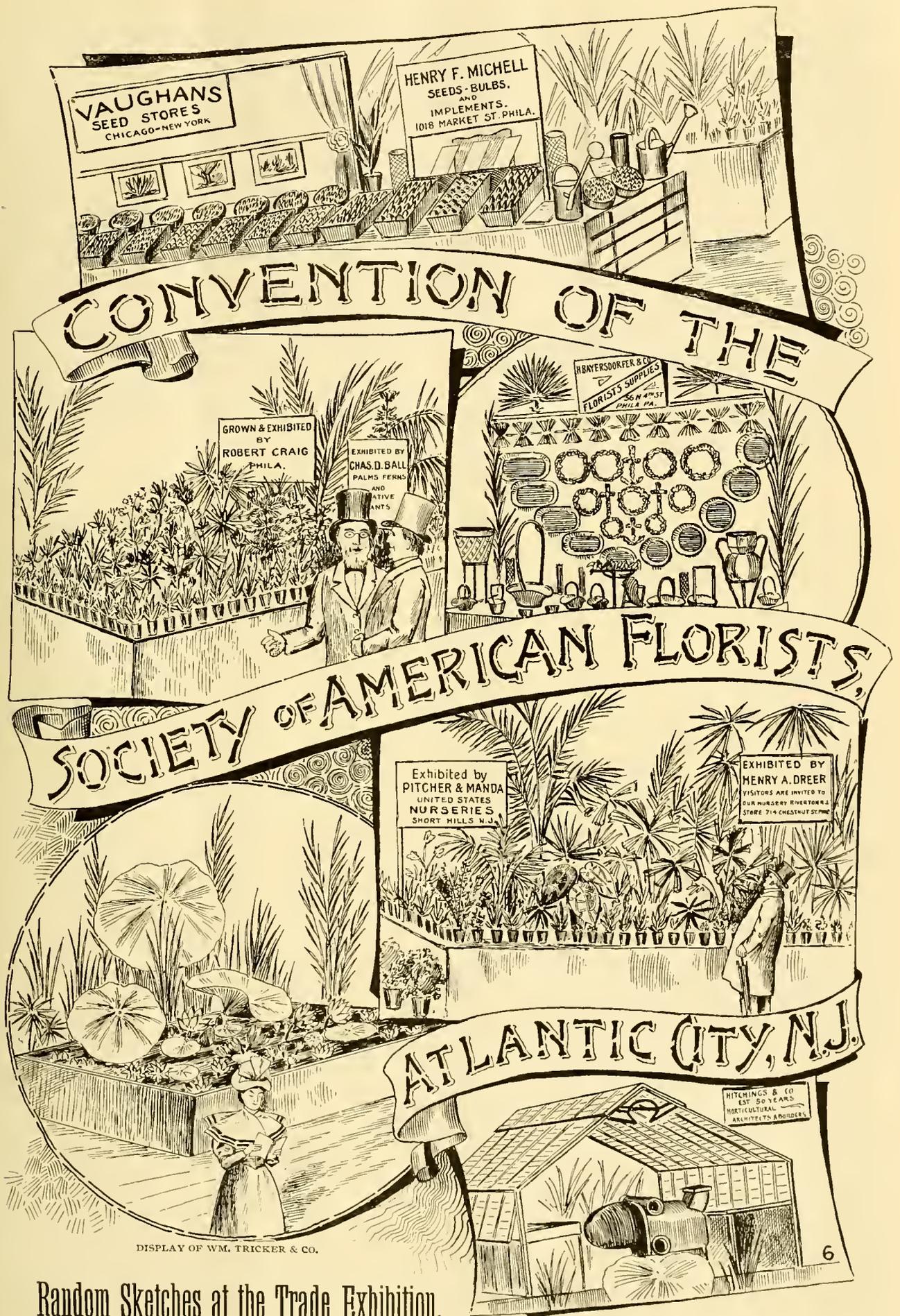
No man was allowed to load his gun until just as he was going to shoot, and after he had loaded he was not allowed to turn around until he had fired. Some of the men had never had a gun in their hand before, and there were three who shot at 25 pigeons and missed them all, and two dropped out after shooting awhile without any results.

The first team prize was won by Philadelphia, with a score of 64 out of 125. This is a beautiful sterling silver loving cup, appropriately embossed and engraved. Second prize went to Buffalo, with a score of 43. P. Scott of the Buffalo team won the third individual prize, a silvered buckhorn corkscrew.

The first individual prize for the highest score was won by Mr. B. Dorrance of the Philadelphia team. Mr. Burton and Mr. Dorrance shot a tie, each having a score of 19. In the shoot off at 10 birds each the score was as follows:

Mr. Burton.....	1	1	1	0	1	1	1	1	1	0
Mr. Dorrance.....	1	1	1	1	1	1	1	1	0	1

The match between these two was very close and exciting. In their desire to see a further contest between these shots some applauded, when Mr. Dorrance missed his ninth bird, thus tying Mr. Burton, who had missed his fourth. It was considered bad taste by some, but the sympathy is always with the loser when he is working hard for the goal, and



Random Sketches at the Trade Exhibition.

anything that brings him nearer is encouraged. Mr. Burton, however, lost, as he missed the tenth, which Mr. Dorrance hit, making the score 9 to 8.

Mr. Burton was very sorry that the individual shooting had to be declared off. Had the teams been ready at the appointed hour there would have been plenty of time for all. The match was called for 1 sharp, but it was 2 o'clock before enough men could be gotten together to start. An hour was lost here, which would have been sufficient for the individual shooting. The first three scores would, however, have been very hard to beat. Following are the scores:

PHILADELPHIA.		BUFFALO.	
B. Dorrance	19	Wm. Scott	14
T. Cartledge	7	P. Scott	16
J. Burton	19	H. Bunyard	1
B. Cartledge	12	C. Hewson	5
H. H. Battles	7	W. Boufield	7
	64		43
BOSTON.		SUMMIT.	
H. F. A. Lange	10	J. H. Troy	1
F. Madison	1	Mr. Luther	1
Mr. Shea	2	J. Manda	0
W. Ewell	3	D. McRorie	4
J. Dawson	1	A. Caparn	1
	17		7
NEW YORK.		CHICAGO.	
Theo. Roehrs	5	J. C. Vaughau	3
G. Bergman	6	G. I. Grant	11
W. Griffen	6	J. T. Anthony	0
N. Steffens	5	L. Schiller	3
A. Zeller	0	J. T. Temple (did not shoot)	17
	22		17
ST. LOUIS.		PITTSBURG.	
H. Young	6	E. C. Reineman	0
R. F. Tesson	6	A. W. Bennet	0
W. Young	0	G. Burke	8
F. C. Weber	2	G. Osterie	3
C. Young	9	C. Bieler	0
	23		11

The teams finished in the following order:

Philadelphia	64
Buffalo	43
St. Louis	23
New York	22
Chicago	17
Boston	17
Pittsburg	11
Summit	7

THE ENTERTAINMENT ON THE PIER.

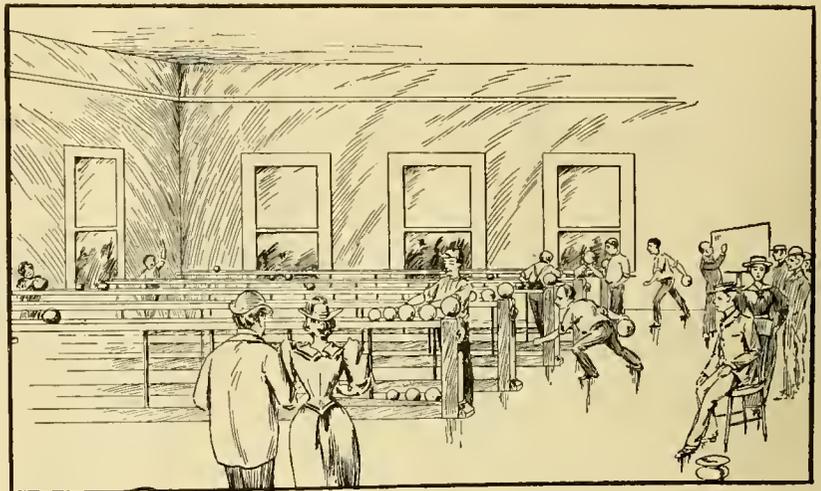
The final entertainment in the pavilion on the iron pier was a very pleasant thing to the social features of the convention. The committee had considerable trouble in carrying out their programme on account of the failure of a theatrical company, which had arranged to furnish first-class talent. The weather was all that could be desired, it being a most delightful evening, and those who stayed to the hop saw the moon rise in great splendor.

The exercises were opened with a few remarks by Mr. Robert Craig, who was glad to see that the members of the S. A. F. had not let the outside attractions interfere with the greater interests of the convention. He said that they would be sure of a warm welcome in Pittsburg next year, and hoped to see there the largest attendance the society has ever had.

The famous Levy, the great cornetist, now gave several solos, accompanied by the orchestra. His first was "The Palms," and for an encore he gave the "Blue Bells of Scotland," then "Nearer, my God, to thee," and concluded with "Yankee Doodle" with variations. The applause was loud and long, and his playing was one of the features of the evening.

There was now some fine dancing by little girls and some singing and dancing by Irish comedians.

Colored jubilee singers also rendered some plantation melodies, which were well received.



A SNAP SHOT AT THE BOWLING CONTEST.

Mr. Burt Eddy, whose appearance brought forth rounds of applause, recited "The old man dreams," by Oliver Wendell Holmes. Mr. Eddy made a capital old man, his acting and laughter being very good, but his performance was much in the nature of a pantomime, as he could be heard but a short distance from the stage. He recited the "Roll Call," by request of Jackson Dawson, in a very creditable manner.

Mrs. T. Edwards, who sang so sweetly at Carisbrooke Inn, was called out of the audience and favored them with two lovely airs, singing for an encore the Slumber Song from "Princess Bonnie." Mrs. Edwards' refined manner and artistic singing were much admired.

At this time a recess was taken for refreshments, after which the scene from Henry the IV was now brought on the boards, with the following cast:

- Sir John Falstaff—Burt Eddy.
- Lieutenant Bardolph—W. K. Harris.
- The two Soldiers—Edwin Lonsdale, P. O'Mara.

It did not take much "make-up" for Mr. Eddy to be ready to play the part of Falstaff, nature having generously provided him with that rotundity so needful and which in most cases has to be counterfeited.

The Lieutenant Bardolph of Wm. K. Harris, for the first time on any stage, was a great effort. We cannot find words to do it justice. His appearance in this play was the feature of the evening. Nature had also fitted Mr. Harris for his part, being as economical with him as she was generous with Mr. Eddy.

Mr. Harris is a talented man; he not only looked the character he essayed, but he acted it like a veteran. That limp! One would suppose he had been born with it and had limped all his life. As an instance of his versatility we will mention that when in Washington at the convention, on the tally-ho ride to Cabin John, he took the horn from the man on the rear seat and blew it to such perfection that the professional looked at him with astonishment.

We shall all have a chance next year to see him on the boards again, as Mr. J. D. Carmody has kindly offered to write a play in which he is to be the star.

The soldiers in this play, Messrs. Edwin Lonsdale and P. O'Mara, are also to be commended for their good acting. Mr. O'Mara's fine voice was the first of the

evening to be heard all over the pavilion, the acoustic properties of the building not being the best.

Of the performance while these artists were on the stage we will say little, as it would be impossible to do it justice; it had to be seen to be appreciated.

For an encore Duke Lonsdale came to the footlights and sang the "Brave old Duke of York" as only he can sing it, the entire audience joining in the chorus. This had to be repeated three times before Mr. Lonsdale was allowed to go.

The Great Scott being next called to the platform delivered one of his characteristic speeches. He complimented the Phila. boys, and saying that he had only missed one convention, had attended all the others, and, with all due respect to the other nine, this one took the cake. Although there was so much to see, business had not been neglected, the sessions being well attended and very interesting. Without the social features the attendance would not be nearly so large. These events as a rule came on the last day, making it a time of rest and recreation after the work had been done. The shooting match was an innovation and he was glad to see it, as it was an event all could enjoy, the ladies as well as the men. Buffalo had shot into second place and his son had won an individual prize, a cork-screw, and said he would give it to his "dada," as he would use it most.

He also praised Mr. Burton for his management of the whole affair.

He now took three little boxes out of his pocket and said he had a very disagreeable duty to perform. He had been asked to distribute three prizes, diamond pins, to three gentlemen who had won them in the individual bowling tournament that morning. The idea that Robert Craig had ever made a score 166, or that George C. Watson had ever been able to roll up 155, and to think that John Westcott should make 150! It was infamous; they must have bribed the boys to bunch the pins. Each man was a chairman of a committee, and this was the way they had rewarded themselves, making so much better scores than the other twenty-three bowlers. "Here," handing the first prize to Mr. Craig, "take it, you don't deserve it"; to John Westcott, "you know you didn't make it"; and to G. C. Watson, "won by fraud!" After the laughter and applause given Mr. Scott had died out ex-President Jor-



First Team Prize.

First Individual Prize.
Second Individual Prize.Second Team Prize.
Third Individual Prize.

THE SHOOTING TOURNAMENT PRIZES.

dan of St. Louis was introduced, and among other remarks spoke of how he would like to see in print the records of the preliminary meeting at Chicago when the foundation for the present society was laid. He would like to see the records of that very important meeting, when some twenty men met in the Sherman House in Chicago at eleven o'clock at night, after the session of the Nursery-men's convention had adjourned, and formed an organization out of which had grown this great society. He hoped that this would be prepared for next year's convention at Pittsburg.

The entire cast now appeared on the stage and the audience joined them in singing "Auld Lang Syne."

The chairs were then removed from the center of the floor and an hour given to tripping the light fantastic, with Mr. H. Bayersdorfer as floor manager, and this closed one of the most enjoyable conventions the society has ever held. K.

The Evolution of the Chrysanthemum.

BY GROVE P. RAWSON, ELMIRA, N. Y.

[Address delivered before the Society of American Florists at Atlantic City, N. J.]

If I had selected my own subject I should have preferred to address you on "Plant life about the Equator." I have had exceptional opportunities for study of natural history in South America. Nature in the tropics is simply grand; I fancy I could have interested you. Vegetable life is so exuberant and in such superabundance that a mere description of its varied species of palms, scandent and upright, the strange flowering trees, the wonderful variety of vines, of shrubby and herbaceous character, the orchid in habitat, far prettier in its natural state amid natural surroundings than as grown under glass, not to mention the splendid fern growth, and floating islands of aquatics—I say a very common statement would command attention, as this field is so much of it unexplored country, being so difficult of access.

But enough—I must stick to my text, the string to my bow at this time is the chrysanthemum. All honor to the glori-

ous flower, the Eldorado of the flower realm. Numerous friends and admirers always look forward to its annual visit and delight to do appropriate honors suited to the occasion. He comes as a conquering hero assured of festive welcome. Many a feminine bosom flutters at the first sight of his curly golden locks, and she wears him over her heart, though it takes her last penny. "So swell," don't you know! The "mum" is decidedly a ladies' flower. These preliminary months are prophetic of future promise. Now is the time to put in our good work, and be not weary of well doing. By and by we may rest from our labors and enjoy the splendor of his regal presence.

Chrysanthemums appear upon the scene with such eclat that old time favorites give way for the time being by mere force of circumstance, unable to cope with such prodigious displays of gorgeousness and brilliancy. What flower excels it in color effect? Its various tints and shadings are at times unique and again startling as to the ordinary rules of color harmony. As well get out your paint pot, and try to reproduce a glorious sunset sky, as to perfectly describe the colors of many chrysanthemums. Nature defies imitation when she gets down to business. When you want a yellow that is pure gold, a ruddy orange or lemon tint, amber, cream or buff, what flower can so satisfy you as does the chrysanthemum? In this respect the "mum" is a peerless flower and unequaled. In its form and shape it is alike varied and interesting.

It is said of some people, don't you know, that they "travel best on their shape." The chrysanthemum might well do so, besides it belongs to the "big four," roses, carnations, chrysanthemums, violets. The orchid and lily claim they don't care for the combination.

While chrysanthemums do not attract the furor of some few years past, and the public press is not so enthusiastic in its exaggerations, and the Hardy type is no longer a novelty, but nevertheless still attractive, and most people are more or less familiar with the "swelled" heads of some of the big fellows, yet all the same the chrysanthemum is no back number,

nor will it ever be. It has come to stay.

Ward McAllister's edict that it is now too common for the exclusive "four hundred" is worse for 'em than it is for it; and for anyone to utter such treason is a shameless affront to the entire chrysanthemum race. So much so that the poorest mum would feel dishonored to bear his name! No fears, though, but chrysanthemums will flourish when Ward himself is quite forgotten. "You can't sometimes most always tell what you least expect the most"—still I have no doubt the king will reign, whether subjects do him honor or no. Vive le roi Chrysanthemum! or dub the flower "Queen of Autumn" if you like!

The chrysanthemum is more useful and popular to-day than ever before. We can not do without it, nor would we. It fills in a gap. It has its essential place that no other flower does or can occupy.

The best word that you can say for a good aster bloom is that it resembles a "mum."

Chrysanthemums usher in November with many a magnificent flower show and private exhibition that otherwise would not be. Florists and Flora's realm ought to be exceeding grateful and do homage to a flower that serves so grand a purpose. Here's to the health of Chrys. Chrysanthemum—whose shadow, may it never grow less, but enlarge!

And I'm proud to say
That I honor its sway
In dull November weather;
When it rules the day
And is bright and gay
As birds of tropic feather.

I am still speaking of the good qualities of chrysanthemums in general. I have not yet got around to its distinctive features of later development. There have been notable improvements in some new varieties, as well as heaps of rubbish palmed off on the public not worthy to have been disseminated, and this fact has lessened the general interest in new varieties not fully tested, or well medaled, certified and abundantly advertised; and many of these even have failed to become standard sorts, from one reason and another. For the good of the cause it is not

wise to have *too* many new kinds offered at a time. There isn't so much room at the top as there used to *was*. By all means let the new comers be distinct in some special feature, as well as up to the required standard in what we expect of a good chrysanthemum. And don't patch out "sets" with one or two of doubtful value. We are already overstocked in this line.

As a matter of fact, there are few connoisseurs at the present time who are willing to pay a dollar or so for a 2-inch chrysanthemum whose merit, after all, is but a question of circumstance or lottery. There are so many—too many—good tested kinds as it is, that it is difficult indeed to draw the line what to retain or discard. The whole chrysanthemum field has been pretty well plowed over of late, in that good, bad and indifferent sorts are alike covered up, some even buried alive that perhaps may be revived again in due time.

No matter how many disappear or are trampled under the rank and file knows no loss. There are plenty of enlistments to fill up the gaps. Recruits from abroad and at home, from the east and from the west, a very cosmopolitan army, making a confusion of tongues! No wonder our chrysanthemum society demands registration, and many of these foreigners require naturalization papers! "Restricted emigration" is one of the topics of the day—why doesn't it apply to chrysanthemums?

Just to sell over the counter, one need grow but comparatively few kinds, standard sorts, white, yellow and pink mostly. But a large collection has its own especial interest. The enthusiastic chrysanthemist creates a special demand for his fine stock. Enthusiasm is no mean factor in the development of trade these days. It comes under the head of advantageous advertisement.

As you all know, some varieties of "mums" you will find useful for one purpose and some for another. There are those to be grown in pots for exhibition to single stems, bush plants and standards, as also for cut flowers. Amateurs and private gardeners occasionally train them into fantastic shapes, all well enough, if it please their fancy, and there is sufficient growth to hide the topmast, mainstays fore and aft, as well as the jib boom. The presence of sticks, wires, or supports of any kind, if at all prominent, considerably detracts from the natural beauty of a specimen plant, no matter how otherwise well grown.

Let the Japanese grow a chrysanthemum bloom three feet across, as it is said they do (my authority is H. Izawa), where is its beauty, when its thin petals have to be kept in place by a wire network support? Give me less flower and more substance.

Reminds me of a story in war time. A soldier home on a furlough noticed for the first time the ladies' new style of wearing their hair, when it was caught at the nape of the neck in a rather heavy net, the so-called "water-fall." "Why," said he, "have the women got so darned lazy, that they have to carry their hair in bags?" Really, we have not much use for a chrysanthemum that can not stand alone on its own merits, *causa sine qua non*.

I believe in evolution as to the chrysanthemum, the fittest will survive; that is my idea of evolution, pure and simple. As the saying goes, "You can't make a whistle out of a pig's tail," the *material* isn't suitable. The so-called connecting links between the animal and vegetable

kingdom are at once separate and distinct after all, whatever the supposed affinities may be.

Four, five years ago anything most would pass muster that was a chrysanthemum. They were all of 'em quite too lovely for anything! Single ones that looked like daisies and smelled like violets? Every style was lauded and praised, including the pin wheel, Catharine wheel, feather duster, water lily and "chalice" shaped flower, as were the anemones and pompons. Now, these classes are not est as to popular favor, and even the Japanese must have less feathers and more petals.

However, when we become too critical we may lose the zest of complete enjoyment. I wonder if this incident is at all apropos. An Irish woman and her daughter came into my store lately to order a flower piece of some kind. The mother had her eye on something large and showy, when made up, plenty of this, and that, and so on. The girl remonstrated, suggesting a more simple arrangement, but was entirely squelched with "Molly, it's meself that's doin' it, and I'm glad I haven't got an educated taste as the likes of you." Oh, it's not half bad.

A musical critic is often so impressed with his own individual art that he quite lacks any appreciation of a brother artist. The "doctors" don't agree when it comes to judging chrysanthemums. Their relative value will vary, much according to the experience and individual taste of A B C. One will condemn what another recommends, the difference of opinion being largely mere point of view.

I will simply give my experience, and confess I do not know all about the subject, nor do I ever expect to. There will always be something to learn in this line or any other, and the more you know only opens up new and greater possibilities for further attainment. Again there will always be different methods of accomplishing the same results.

For myself, I know that I can grow as good chrysanthemums as any I have ever seen on exhibition, with a high average of first quality bloom, and with but a very small percentage of plants failing to flower, or producing imperfect blooms. It is not my thought to go into detailed cultural directions, nor is it necessary—that ground was well gone over last year in Elmer D. Smith's admirable essay "Bench grown chrysanthemums."

I plant my first lot in solid beds about the first of July from 3 and 4-inch pots, good strong plants that have not become starved or woody. I would not want to plant them much earlier than this date, judging from my experience. With me, I get larger flowers, more substance and earlier in bloom, than if planted out in May or June. I stake nothing on the fact, as a rule, it is simply my experience.

Those planted on benches for early and mid-season blooms are in place by the 15th of July, while the late ones for December flowers are not potted off from the propagating bench much before the last of the month, and planted in August. These late ones are all grown to single stems, one flower each from crown bud cuttings, lateral and terminal shoots, according to the variety.

I use plenty of half rotted cow manure for compost, with stiffish sod turned over and stacked up the preceding spring. There is much more "move" to it than if piled up for two or three years, and is better for general planting of stock inside, though not so good for potting purposes, a little too rough and coarse perhaps.

While I use coke for drainage in the bottom of rose benches, with chrysanthemums I use manure instead, the "mum" being so much more voracious a feeder I prefer this course to using liquid; I only use liquid for pot plants.

Give a chrysanthemum too much strong drink and he will suffer from "sour stomach," dyspepsia, and the whole plant will appear to have a bad attack of jaundice. Use it, of course, as necessary, but there is danger of over feeding. When malformed blooms stare you in the face you feel like using "cuss words." Stimulants ad libitum are as bad for "mums" as it is for the human species. In planting chrysanthemums carefully select your young stock same as you would for roses; hard, woody or starved plants ought to be at a discount, even if they are new "mums," and is a waste of time and space. You need to be more particular with some varieties than others—especially those that make a thin waxy growth to start with, as Mrs. M. J. Thomas, Mrs. Robt. Craig, M. B. Spaulding, H. Waterer, and the like. Healthy young stock of Golden Wedding grows quickly and vigorous, but if it once becomes "hard" its growth is stunted and it rusts badly.

Mrs. Craige Lippincott will stand right still when stunted that way, or else put out new growth from the bottom that generally fails to bloom at all.

Mrs. Geo. Bullock (Domination) acts much the same way. By the way, the former name is entitled to precedence. There are fewer chrysanthemums imported under number than of yore, consequently less confusion in names and synonyms. Examples are V. H. Hallock vs. Dawn, Mrs. Humphreys vs. Snowball, Nineveh vs. Charity, Bride of Roses vs. Wm. Tricker et al. Besides, our chrysanthemum society registers the names of new aspirants to public favor, and the debutants are thus properly chaperoned. That's all that saved us from having a baker's dozen Ruth Clevelands when the first baby put in an appearance at the White House. What about Esther? Quite a chapter could be written on histories of synonyms. Good Gracious, the sport of Princess of Chrysanthemums, is classed by many as synonymous with Princess, whereas the real article is a bona fide sport, distinct in habit, of better shape and color, and holding its big graceful flower quite erect.

I have another sport, similar to Good Gracious in every way, except being pure white. I am waiting to see whether it is to be reliable or not. I wouldn't want it to be entailed with curvature of the spine, same as Princess.

I had a yellow sport from L. Canning that showed up grandly last fall. It gave a tremendous deep bloom of pure golden yellow, lasting a whole month on the plant. Habit dwarf and sturdy like the parent. Still, whether it will pan out satisfactory on further acquaintance is all guess work. Sports should be thoroughly tested one or two seasons, same as we expect of seedlings. A good many seedling novelties that have shown up splendidly at exhibitions, receiving certificates and medals, have really proved utterly valueless. Some of our most desirable varieties originated as sports. Among the newer ones are Chas. Davis, from Viviand-Morel; L'Enfant des deux Mondes, from Louis Boehmer; Clinton Chalfant from Jos. H. White; Kate Mursell from Robt. Bottomly and others.

Of the newer sorts, the very earliest ones are the most sought after. I venture to say that E. G. Hill & Co. have sold one hundred Mrs. E. G. Hill to one of Chal-



BURT EDDY AS FALSTAFF

W. K. HARRIS AS BARDOLPH

FROM THE SCENE FROM HENRY IV PRESENTED AT THE ATLANTIC CITY S. A. F. ENTERTAINMENT.

lenge for this very reason. By the first of October chrysanthemums are in demand and you are repeatedly asked "how soon will they be ready?" The earliest flowers are quickly disposed of to good advantage, in time to use the allotted space to carnations or some other crop.

As far as I am able to judge of the novelties offered last season, I consider the best very early sorts to be Mrs. E. G. Hill, Yellow Queen, Lady Playfair, Clinton Chalfant and Thos. H. Brown. Doubtless there are others not so well advertised. These earliest sorts are overstepping each other year by year, and are also of much better quality than formerly. Let the good work go on.

I do not mention Mrs. Craige Lippincott, as the merits of this excellent early yellow are sufficiently well known. It is a fine thing, as most of you are aware. The early French varieties of Delaux are of but moderate quality, and not enough substance to grow under glass. I state my own experience. Possibly there are exceptions, as the list is a very large one. Of the extreme late ones are Challenge, Laredo and Eider-down, yellow, pink and white.

Eugene Dailedouze probably showed up to the best advantage of any one chrysanthemum offered last fall. It seems to be all right, and much is expected from it.

Maj. Bonnaffon is another very good one indeed, and so is Minerva, of a rich bright yellow. Marie Louise is a graceful dainty white.

Mutual Friend has good substance, and Mrs. J. Geo. IIs is distinct and very durable as a cut flower, as was evidenced at the World's Fair chrysanthemum show. A. H. Fewkes pleased all who saw it at its best last year. It is confidently expected to be on the front row along with the other good yellows. It is rather after the style of Minnie Wanamaker in build, and reminds me of Mrs. F. L. Ames, '93, also first class.

Pitcher & Manda is distinct from contrasting color. Other certified sorts are Achilles, pearl white, Fairview, crimson lake, Silver Cloud, white and salmon, White Rock and Inter Ocean.

From over the water came the two sports, Chas. Davis and L'Enfant des deux Mondes ("The child of two worlds") is shortened by common consent to

"White Boehmer," and the two seedling Reys, Mme. Edward (renamed) and M'le Therese. This notable quartette were visitors at the World's Fair, and much admired. I don't think they had any cause to grumble for not having been hospitably received.

Varieties wanted for exhibition purposes should be selected among the mid-season kinds, as at this time novelties, curiosities, monstrosities or anything out of the usual line in shape or color will attract attention that would otherwise be of doubtful value.

Some good large disheveled and curled blooms of Bronze and Golden Dragon occasioned as much comment last fall as anything I grew, but of no other value aside from exhibition.

The evolution of popular taste a la mode demands a full high rounded flower of good substance and pleasing color, and at the same time not stiff or rigid outlines, as Golden Wedding, Emma Hitzeroth, Mrs. Craige Lippincott, The Queen, Mrs. Jerome Jones, G. W. Childs, J. R. Pitcher and others. Good foliage is another requisite in the general make-up of an ideal chrysanthemum. Wm. Falconer

and White Boehmer are very popular with the home trade, but do not ship well. Do you remember the advent of Mrs. Alpheus Hardy and the boom it was to chrysanthemums? No prima donna was ever half so much talked about either by word of mouth or through the public press. I saw it for the first time at Philadelphia on exhibition under a glass case. It proved as good a "drawing card" as an Egyptian mummy or a live mermaid. Golden Hair is claimed to be a worthy yellow, of this class, we have had nothing of any real value in this color, up to the present time. The numerous claimants were simply adventurers.

Chrysanthemums are like certain fruits, there is a great difference in their shipping qualities. Some of the very best strawberries for near at home use will not bear carriage any distance, so it is with many chrysanthemums. The splendid blooms of Vivian-Morel, Niveus and others of similar build are better for the home market. Not that they lack substance, but are difficult to ship on account of their shape. These do not travel so well on their "shape" as do some others.

Bryden Jr. and M. B. Spaulding are splendid yellows, representative of what "the golden flower" ought to be, rich color, large, full and shapely.

Mrs. Robt. Craig and its "double" except in color—a light yellow—I refer to "Congo," introduced by Yoshiike, are both extra good. The blooms are very durable either cut or to remain on the plant. These are really hybrid in class, partaking of the breadth of petal and grandeur of build of the Japanese, with the spherical outline of the Chinese.

Golden Gate, J. C. Vaughan and Chicago are very attractive blooms if cut before the eye becomes prominent.

Col. W. B. Smith and Edward Hatch would both be grand if they could only hold their heads up. A little weakness in the stem is a bad fault in a chrysanthemum, and unfits them for general duty.

Our fair English cousin Florence Davis has either a weak neck or else is too modest by half. A chrysanthemum with a weak stem is as bad off as a man without any liver—neither of 'em haven't got long to stay here, and it is pro bono publico.

Chrysanthemum "The Queen" is the typical American girl, and fitted by nature and education to adorn the highest position. I admire the Grace Hill type, a rich blush incurve of remarkable substance, though not entirely covering center; still with the incurved sorts the suggestion of an eye does not detract at all from the symmetry of the flower. Indeed, graceful outlines are often wanting in the densely doubles. Mermaid is of this type, but deeper color and quite covering the center. It is an all 'round variety. Good for cut flowers and for exhibition, also makes a good pot plant, though some authorities claim it a poor grower.

Reflexed and recurved sorts should be full and double for the most part. This class has been much improved of late years, and we now have some superb varieties for exhibition and cut flowers. Jos. H. White is a distinct type and one of the most popular. Eda Prass, Niveus, Chas. Davis and Tuxedo are each representative. Tuxedo is the best amber or orange cut flower to date, splendid keeper and shipper.

I think W. W. Coles is prettier for showing the eye than if it was more double. It has a most pleasing flower of particularly bright color. There is nothing just like it. Individuality is as marked among chrysanthemums as in pansy faces. The one, so diverse in color and shape,

other in striking variations of color and expression.

To grow chrysanthemums well one needs to know their separate individuality, and like some people you know, improve on acquaintance. But a single variety affords material for a diffusive English treatise. In our climate, under glass, chrysanthemums are much easier grown, and with less care and expense, than in England. Besides, we can grow them in half the time and by simpler methods. Let a novice read or study the elaborate English cultural directions and he would be ready to give up in despair. Experience is always the best teacher, though sometimes it costs us pretty dear—"Le cout en oter la gout" the French say—the cost takes away the taste.

Belle Poitevine is a beauty of the regularly incurved ball shape Chinese section. It is a very early sort and exceedingly useful for cutting. Makes the prettiest boutonniere of any chrysanthemum extant in my opinion, and first-class for plateau work, with growing ferns bedded in the moss. (This is the proper way to use ferns for this purpose, be the flowers what they may). Belle Poitevine is much like Mrs. Geo. Rundle in general effect, easier grown and earlier is its distinctive feature. It is a grand keeper, as all kinds should be, selected for cut flowers. It is aggravating enough to have a flower go all to pieces almost as soon as cut, like Mrs. Langtry, L. Canning and Mabel Simpkins. In a short time these varieties resemble plucked geese, and eye each other askance—all "eye," in fact, in their denuded state. I grow Belle Poitevine largely, and Carrie Denny, of similar build, an early bright amber, that takes well with the home trade.

Marguerite Graham is a later cut flower kind I think highly of. A shapely white, luminous with golden light. This has grand keeping qualities also.

I greatly admire early Dr. Callandrea, of similar tint, as probably you do. The white and gold effect is much like some silks; in certain light one tone is prominent, that shifts to the other according to focus.

You can't improve on Molly Bawn and Marie Louise, for a plateau of white with adiantum ferns. Try them in this way, and work out the same idea with young plants of croton and Grevillea robusta for yellow and bronze colored chrysanthemums. A plateau of chrysanthemums when well done is a thing of beauty, or it may be coarse, crowded and bulky. Right here there's a chance for nice discrimination, often blooms that look well in a tall vase are out of place in a plateau arrangement.

American Beauty is a grand decorative flower, but in a hand bunch to carry *does* look stiff and awkward. A bull in a china shop is no more out of place than a big paonia in a lady's hair! Why can not chrysanthemums have special uses same as roses and other flowers?

Ivory is still the best representative white chrysanthemum, all things considered. I believe it scores the greatest sum total of good points.

Wm. H. Lincoln occupies nearly as prominent a place among yellows. New varieties come and go without seemingly affecting their relative position.

Mrs. M. W. Redfield is an excellent early pink reflexed cut flower kind, after the general style of Ivory. Try it. At the second chrysanthemum show in New York, as I remember, the best flower on exhibition was Troubadour, now little seen—therefore the judges would say "distanced." None that have come after

equal its clear shade of old rose. Under artificial light its fine color is distinctively characteristic.

We have a great many lilacs and magentas that are dull and inharmonious. We have no use for 'em, that is to sell over the counter, or for "making up." Except for purposes of exhibition, the extra tall growing kinds will be discarded among commercial growers. Mrs. E. G. Hill is almost too tall for the shelf. What about Harry Balsley? Isn't it a beautiful thing? And V. H. Hallock is a waxy flower of perfect tint. Doubtless I grow some kinds I have found satisfactory that you may have discarded, and vice versa. I can grow my own "G. P. R." profitably, but I don't ask you to bother with it.

There is no *absolute* standard of excellence, save in a general sense. We are all of the same opinion as to some special kinds being good all 'round varieties; aside from this judge and choose for yourself. There is no occasion for growing poor ones though.

Robt. Bottomly or its synonym, Lady Lawrence, Pelican and Mrs. M. J. Thomas are particular favorites of mine. I would also mention Mrs. Humphreys (Snowball); snowball is the better descriptive appellation. Mrs. Humphreys is the name of Elmira's pioneer florist, now out of business. I well remember the late Peter Henderson's enthusiasm in speaking of this excellent cut flower variety. I still find it one of the most useful late kinds. Personally, I am fond of the bronzes. When I saw Comte de Germiny for the first time I thought it the most wonderful flower I had ever seen; and the first sight of Mrs. Wheeler produced an impression I am not likely to forget.

Hicks Arnold makes the best trained standard of any chrysanthemum that I am acquainted with, growth free and vigorous, and perfecting numerous good sized blooms. Pitcher & Manda have showed this up in fine form at several exhibitions. A large specimen shipped to Buffalo chrysanthemum show two years ago arrived in splendid shape with hardly the loss of a single bloom, speaking well for its durability. Chrysanthemum plants in flower don't usually ship very satisfactorily. By the time they get through with the express company, what with bent or broken stems and damaged flowers, their ornate beauty is done for. Hicks Arnold is one of the very best bronzes for commercial use. Nearly all of the bronzes show to best advantage at night, under artificial light, then they are beau and beiles, the observed of all observers, the cynosure of all eyes. H. F. Spaulding is exceedingly attractive in color as well as distinct in shape. It would come in under this general class, as would E. G. Hill, A. Swanson, Harry May, Alcazar, Baronald or Moseman, Mrs. J. T. Emlin, Prince Kamontski and Thos. Cartledge, comprising a fine lot.

I regard Waban an exhibition flower par excellence. It has remarkable depth, quite full enough and of sufficient substance for the purpose. It should be bench grown; is no pot plant.

There are several of the older varieties that still hold their own, and are to be depended on for faithful steady work. Cut Puritan early and its lavender shading is lovely. As a bush plant it is an "old soger," as are Beaute des Jardins, Mabel Douglas, Pere Delaux, Tokio, Cullingfordii, Source d'Or and others. Frank Wilcox used to be a favorite sort for bush plants, in habit all that could be desired, but its flowers, profuse as they were, altogether too stiff and looking like immortelles. Juvena makes a good "bush"

pot plant. I would like to see its striking color duplicated in a large flower. As a rule these shades so quickly fade and lose their brilliancy. Grand Mogul is an example.

Auriole is a halo of silvery yellow, unlike any other. Miss Mary Weightman is a feathery globular mass of bright gold,



E. C. REINEMAN

Vice-President elect of the Society of American Florists.

also distinct, and Mrs. L. C. Maderra quite another type.

Harn Ko's twisted incurve and its soft clear mauve tint is different from anything I know of. It is one of the very latest, and valuable on this account. H. Waterer is another good sort in demand for late cutting on account of its brilliant color. This variety is a little difficult to grow, but does well from late struck cuttings.

Yonitza and Miss Meredith are in use for late crop. Mountain of Snow is a regular mountain of growth, but produces a good flower on top. I saw a fine batch of this variety at John N. May's a few years ago. Jessica is by no means out of date for early large blooms, and Minnie Wanamaker is as stately as ever.

I find Harry E. Widener and Edwin Molyneux rather inclined to be variable. Both these varieties, though introduced with a flourish of trumpets, are not nearly so much in demand as they were. Have they deteriorated? Curly yellow Yeddo is not half bad when well done, and the tangled golden shock of Mrs. I. C. Price charms the eye at once. Thos. C. Price is labeled "crushed strawberry," though it doesn't look at all "sat down upon," but is too stiff and solid an incurve.

Le Tonquin is a reflexed type of flower, with crimped petals spirally twisting after the form of a cork screw of peculiar effect, while Ben d'Or is a veritable little bunch of yellow pine shavings.

Marvel is as distinct in its contrasting color as Pitcher and Manda. When it was considered a novelty grand bush plants were shown at the Philadelphia exhibitions. At night no fair maid present had such a lovely pink and white complexion.

Lillian Bird is still another type—good when well done. Its color is charming—nothing "off" about it—just the right tone. We sometimes grumble about the odd shades of many chrysanthemums as being of little value to the general florist. Take my word for it, they are "not in it" with sweet peas. Some of the "new" colors are simply "horrid."

Mrs. D. D. L. Farson and Lizzie Cartledge are good samples of the greatly improved reflexed type. Mrs. Fottler is the best of its class and type. Its silvery shade of rosy lilac is a better tone of color than any of its numerous seedlings. At maturity its soft fleecy outlines the ladies term "fluffy," "Just look at that big fluffy flower," they say, "isn't it sweet!" Mrs. Irving Clark of the pæonia type is too coarse to suit me, but commands re-

spect for its size, "big head and little in it" is what I say of it.

W. N. Rudd is probably the best of the elks-horn type, and John H. Taylor represents the reflexed *plumed* flowers, white delicately shaded pink. There are several good ones of this class, all popular as cut flowers.

Mrs. E. D. Adams is an exhibition variety of the "swirled" type, of huge size at its best. It was well advertised at the time of its debut.

Mrs. J. G. Whilldin has been well received from the first. Pity Gloriosum has such a weak stem, otherwise there would still be room for it. Mrs. J. N. Gerard and Rohallion are struggling hard to hold their own with the new comers. Will they do it? Mandarin, an early Indian red, resembling Tuxedo in shape, did well with me last year. I was surprised to find it so good.

When Geo. W. Childs doesn't burn it is fine. What furor and interest it excited when it was first placed on exhibition at Orange, N. J. The rose Waban was also shown in excellent form at this time. I never saw it so good elsewhere. Strange



WM. J. STEWART

Secretary of the Society of American Florists.

it should have so deteriorated! How do you account for it?

Shasta, Mrs. W. K. Harris, Eldorado, Mrs. A. Carnegie and others are too difficult to grow to be satisfactory. If weak stems must go weak growers will follow suit. As evolution unfolds its plans it is plain to be seen that only the fittest can hope to survive.

What may we expect ten years hence? Will the standard varieties of to-day hold their own, or do some kinds deteriorate? It would almost seem so, judging from the past. What do you think about it?

Tubiflorum, Ismail or Thistle, Golden Thread, Medusa, Val d'Or and Mme. Hoyslet are especial curiosities among the entire chrysanthemum family. The latter because it is the smallest of the tribe, but half an inch in diameter!

Chrysanthemums do well in the south, the West Indies, and in South America, where the thermometer runs up to 160° in the sun. You meet with the Chinese section more than all the others, and there is no regular season of bloom. They go at it when they feel like it, and are in proper condition.

The first chrysanthemum I remember to have seen was a magenta pompon 'way back, when I was a little chap some thirty years ago. As I recall it now it was a shapely plant, full of flowers, standing in a bow window of a friend's house. I noticed it in passing. I stopped, looked, went in and admired. Just to think of it! A plant like that in full bloom 'way into November! Florists were a rara avis in those days. A tea rose was a novelty, coleus almost unknown, no double geraniums, palms seldom seen, and so on. Times have changed! Do you manage to

keep your end up? progress, and not fall into slovenly retrogression? As little orphan Annie says:

"The gobble-uns 'll git you,

Ef you

Don't

Watch

Out!"

Gradually I became used to seeing chrysanthemums; and the rich yellows of the Chinese section began to show up here and there. Early in the seventies I grew *Laciniatum* for cut flowers. I thought it was an awfully pretty thing, and still think so, though it has been crowded to the wall by the big fellows that have come after and rule the day. Bulls and bears have the best of it now and control the market. Not much show for pompons and anemones! Both these classes resent the injustice of being placed so entirely in the background.

M. Charles Lebocqz is the most violent in his vituperation, as he was the representative leader of this class. A fellow who has been "cock of the walk" doesn't enjoy being knocked from under, 'tisn't human nature, and please give chrysanthemums credit for having "feelings" as well. Thirty years have marked marvelous changes in the old time *artemisia*—as it was called then. How long ago is it, some twelve years—'81-'82—since was introduced to America a set of imported "mums"—among them the Japanese varieties *Gloriosum*, *Mme. Desgranges*, *Lady S. elbourn*, *Mme. La Croix* and *Fantasia*? Well, they were great, were they rot? The interest and enthusiasm excited by these early adventurers, with John Thorpe at the helm, has worked wonders, and made "Uncle John", as some one has said, the godfather of the chrysanthemum in America.

In this connection I would mention the valuable service of H. Waterer as importer and introducer. I would not forget the obligations that are due the veteran W. K. Harris. I honor that man for his grand service to the "mum" as well as his knowledge and skill in other lines of the



H. B. BEATTY.

Treasurer elect of the Society of American Florists.

florist's art. In the wake of these early beginnings a noble host have followed on. They are all representative men known to you all. I need not particularize. Thus was the success of the chrysanthemum assured by the painstaking study of practical workers, and improvement has been both steady and rapid to the present time. So thoroughly has the subject been entered into by these experts, reducing theory to practice in the matter of seeding and hybridization et al, that we have even discounted the Japs. American chrysanthemums abroad are receiving high honors, and the most distinguished attention, same as our ladies always command. God bless 'em—the ladies!

What improvement *can* be made remains to be seen. Certainly not any great stride as to quality, substance and

build of flower blooms, the standard sorts are really quite good enough in this respect, and habit and growth is about what it ought to be, sturdy and short jointed. There will doubtless be many new shades and tones of color, probably a much brighter red, possibly a blue (not dyed in the wool), and again distinctly striped and variegated kinds if you care for them.

What size they will attain, too, is a matter of conjecture and speculation. The big Japanese sort referred to is quite single and not what we want. Let the good work go on, I say, but at the same time, attention growers. Look to your laurels. Don't attempt to gull either the unsophisticated public or the poor florist with anything inferior to what we already have, or we'll cry out with the small boy "what ye givin us?" No, indeed, it won't work, we have had enough of this sort of business along back. Let's stop it.

But we will accept a Vigilant for outside breezy water and white-caps, if she can hold on to her center-board, and award the cup to Britannia for inside work. There are Vigilants and Britannias among chrysanthemums, both good in their respective place, and excel under certain conditions either for cut flowers or exhibition.

How old is the chrysanthemum? It is as old as the hills, ye flower of the gods. Yet I have never been able to find out definitely—the Japs won't tell us for a fact, and the Chinese keep "mum." Anyway, it comes to stay, so what's the odds! It doesn't hardly do to rake up ancestors, rarely is it wise, we might unearth skeletons and skeletons are not always dry bones, they sometimes have unsavory odors. Isn't it enough that it's the biggest flower out, and likely to remain so?

As we have already said, it is the flower—par excellence for decorations and general decorative work. Apropos of the common fault is over-crowding.

I have one or two chrysanthemum "yarns" before I close.

A customer came into my store last November when "mums" were in good display. "Vell, how you vas, mein Herr. My! shiminiel! ain't dose nice ein grosse posy blumen," pointing to a vase of big fellows. "I vants ein sausage bokay vor mein bestest girl." "A sausage bouquet?" I thought a moment—"Ah! I suppose you refer to a corsage bouquet?" "Ya, dot ist so." "Well, one of these large blooms will be amply sufficient, I think." "I mind notings the price, Katrina ein schöne fine fraulein, makes your eyes most water, see 'er pooty vace. I dakes de vohl lot," and he did.

Katrina must have been the bloom-iest girl out mit her big "sausage" bouquet.

I had an order for a church wedding, the bride's bouquet was a huge bunch of Ivory "mums," to be carried by a small boy as page. It was a comical sight to see the little chap stagger under his load. For once people forgot to look at the bride.

A young minister, who was inclined to take love for a text, as parsons sometimes do, was courting a pretty girl, a musician to-wit. One day he took her a box of chrysanthemums, but she was not at home, so left them with Bridget, who passed them over to her mistress as "Christian anthems," that Rev. so and so had sent her, with his compliments. Without undoing the parcel she returned the same with a curt note "That she preferred to select her own music."

What's in a name? Anything that

smells as sweet would be a rose! Shall it be plain "mum," chrysanthe, or chrysanthemum?

Let me not entirely exhaust your patience. I close with this toast:

Here's to the health—a votre sante—of every American florist, man or woman, born of any nationality, so long as their feet are on American soil, American good will about them, and America's blue sky is over all—*provided*—that they pin their faith on the chrysanthemum.

Cannas.

BY J. T. TEMPLE, DAVENPORT, IOWA.

[Read before the Society of American Florists at Atlantic City, N. J.]

A class of plants that is becoming very popular is the cannas. They are rapidly crowding the geranium for the first place in bedding plants; their beautiful and massive foliage stamps them as one of the best decorative plants for all purposes, especially for use in greenhouses, halls, dwellings, etc., while for the lawn, they are one of the most satisfactory plants grown, blooming from June until frost, rivaling the improved gladiolus in size of blossom, and the brilliancy of coloring of the various shades of red and yellow flowers.

The name canna is, according to some authorities, derived from cana, the Celtic name for reed or cane. They are mostly natives of the Indies and South America. They are easily multiplied by seed and also by division of the roots. Of late years there has been a great improvement in color, size of blooms, and dwarfness of habit of the plants; especially in the hybrid seedlings raised by Mr. Crozy of Lyons, France. Mr. Crozy is entitled to great credit for the improvement and introduction of the fine varieties as are called the Crozy cannas.

A good many good seedlings are being raised in the United States, and there is no reason to doubt that with our fine climate and soil that we can produce finer varieties than are yet in commerce. After we have obtained the ideal pure yellow canna with large blossoms we should turn our attention to procuring a strain of foliage cannas, with the beautiful colors and markings of the crotons and phrynium, and the elegant shadings and color of *Dracena terminalis*; then the canna with its gorgeous flowers, and the size and elegant markings of foliage, would possess most every quality that the most fastidious would desire. It is feasible as we already have reddish and purple foliage in numerous cannas, and the yellow shade and some markings, as in *Canna Breningssii*.

From the 1st to 15th of April we divide and start the canna in the greenhouse, or in a mild hotbed, in 6 or 8 inches of soil, preferring the hotbed, as it seems more congenial to them, dividing into one or not more than two eyes to each piece. These make larger growth and foliage than if more eyes are left. When they have attained a growth of about a foot high, say about May 20 (with us), we plant out in open ground if the weather is suitable, if not we pot them until ready to plant out. In very windy situations it is best to plant them out as soon as the first leaf shows above the ground; they do not break off so easily, and are harder and stronger than plants forced to a lengthy growth caused by starting them too early. To be effective the beds should not be too large. Wm. Robinson, in *Sub-Tropical Gardening*, truly says that enormous meaningless masses of them are things to avoid, and not to imitate. The best size of circular bed to

plant the tallest varieties in is from 15 to 20 feet in diameter, made level (with very rich soil, one-fourth of good manure, not too fresh), a little below the surrounding surface, so that the water will not run off as it would do if raised. If the bed is larger than 15 to 20 feet in diameter for the tallest variety it will look low and squat, and if smaller it will look too high. A study of the height of the various sorts will prove a good guide for diameter of bed; the taller the variety, the greater the diameter, and vice versa for the smaller varieties. A proper planting for effect, whether for one or more seasons should be one of the main ideas of the thorough gardener, but as long as our profession is so truly empirical, so long will the general public regard the civil engineer with more favor or his opinions with more weight than those of the horticulturist.

After they are planted we give them a good watering; then when they have started to grow rapidly, say about July 1, we place the hose on the ground in centre of the canna bed, and let the water run slowly all night. During the warm growing season they cannot have too much water at the roots. I do not advise watering the foliage in beds more than once a week when they are in bloom, as it spoils the flowers, rendering them unsightly and making them fall off much sooner than otherwise. Keep cutting the old flowers off before forming seed and they will bloom continuously until frost.

A well grown canna is an addition to any kind of architecture, and is suitable for planting at base or side of steps and porch. They are very effective planted in clumps or singly along walks in lawns, and are useful for screening unsightly views. A very handsome bed is one of all one color, say Chas. Henderson or A. Bouvier, with a border of some of the dwarf yellow varieties. In a neighboring terrace lawn the owner has planted clumps of the improved cannas (assorted) at the foot of three terraces, and the plants 5 to 6 feet apart. The effect is very pleasing, especially with the grass background. At the World's Fair, between the Horticultural Hall and the greenhouses, were 2 novel round beds raised 8 to 12 feet, the mounds being made, so I was informed, from old boxes, manure and refuse sphagnum moss and soil from cleaning out the greenhouses and sheds. They were planted chiefly with Mme. Crozy cannas, yuccas, ricinus and smaller things to fill bare spots. Being so high they were very effective and showed well John Thorpe's skill and the capability of the canna as a decorative plant.

They are easily grown from seed, blooming the first year. Soak the seed in warm water for 24 hours before planting and most all will come up. There are some good varieties raised this way (especially from the newer sorts), and it should be encouraged, but my advice would be to throw them all on the rubbish heap, unless they are decided and very distinct improvements on such varieties as Chas. Henderson, Alphonse Bouvier, Florence Vaughan, Capt de Suzoni, Mme. Crozy, Paul Marquant and other good varieties now in commerce. If you raise what you think is a new and good sort it would be better before disseminating to send bloom and plant to some canna expert, who grows in large quantities the improved sorts, so that they can make comparisons, say J. C. Vaughan in the west and Dean, Pierson or Dreer in the east. Or, better yet, start a canna society, auxiliary to the S. A. F.,



VIEW OF THE GREENHOUSES OF MR. ROBERT CRAIG, PHILADELPHIA.

which would register and test all varieties before they were disseminated; it would save trouble in canna nomenclature. Some of our European brothers are very extravagant in descriptions of varieties which sometimes need a microscope to detect the slightest shade of difference in color, as many of our importers of roses, geraniums, cannas, etc., know to their loss, so go slow until some other fellow has tested them.

In propagating a new variety for dissemination do not divide too often, as it weakens the stamina and the variety is often condemned, when it has been weakened by over propagation. When Mme. Crozy was first sent out I bought stock and commenced to divide, and did so until the foliage was no wider than corn blades, and most of the last division had to be thrown away, for they never made good plants.

Insects.—The canna is, for the size of its leaves, remarkably free from insect pests. I have only noticed red spider on plants this year that could not be reached by the hose, and on early planted stock a small white hairy worm (name unknown) which rolled up the leaves and cut holes in them, disfiguring them badly; the only remedy I know is to hand pick; I have not seen any of these latter insects since July 1 this year.

Taking up.—The first day after frost I cut off most of the tops, leaving a few leaves on, then take up and plant, without dividing, in boxes in sandy soil, then place in light cellar or under bench in greenhouse, care being taken to see that they are given only enough water to prevent drying up, and not enough to cause rot. If I have plenty of room we plant on greenhouse bench and keep growing all winter, and at Christmas and Easter the flowers pay for their keeping.

Qualifications.—A good canna should possess good foliage, a sturdy habit, a large flower, composed of wide and not too long petals of good waxy substance, on a stalk rising well above the foliage, and a good bright color. The flowers on the stalks should not crowd one another too much and need not necessarily be upright, as is the standard set by some, but may droop, as in the *Iridifolia* or *Ehemanni* type; to some they are more graceful and beautiful than the upright type.

For years I have been testing all the new varieties as they were introduced. Some

were extra fine, but many should not have been sent out; some had new shades and markings, but lacked substance and breadth of petals, etc. Some years a variety would do especially well, and the next year a variety that was poor the previous season would take first place. Some plants of a variety do better in some locations than in others, planted at same time and given same treatment.

The best 12 grown this year by me of the previous introductions are:

Chas. Henderson, of its color (rich vivid crimson) the best canna to date; petals wide, not too much reflexed and of fair substance; very desirable planted singly, at side near foot of entrance steps to residence, also good for beds of all one color.

Florence Vaughan (the gem of all cannas), color bright golden yellow, thickly spotted with bright crimson; petals broad, not too long, and of good substance, flowers lasting well this dry season. Very desirable planted in same way and as a companion plant to Chas. Henderson. It is not quite as showy as Capt. P. de Suzzoni for a bed of yellow on account of the large bright crimson spots neutralizing the golden yellow. I think it is the best type of canna to date and advise all to plant it. Your committee on nomenclature cannot have given to cannas the careful consideration which the prominence of this class would justify. The variety Florence Vaughan was purchased and named by the introducer in this country in the fall of 1891, while Anton Barton, which that committee claim to be identical, was first offered as a trade novelty for the spring of 1893. A canna committee or society would prevent the circulation of such inaccuracies.

Alphonse Bouvier, the brightest canna for bedding (richest crimson), and will always be in demand; makes grand mass beds; seems to have some *Ehemanni* blood in it, as when the second flower opens on the spike it spreads or droops, same as the *Iridifolia* type, and gives variety and style to this class of plants.

Capitaine P. de Suzzoni is the best yellow for planting in solid bed of one color; it is not a pure yellow, but a canary yellow shade lightly spotted red so as to intensify the yellow shade. (Extra good.)

Mme. Crozy keeps up the reputation of being the most free flowering of the Crozy type of cannas; too well known to describe. No one loving cannas can do

without it; it generally comes true raised from seed.

Paul Marquant is another grand canna hard to beat, color salmon scarlet.

This season the best dark or purple leaf variety is canna *Geoffroy St. Hilaire*, a splendid variety for mass beds; flowers orange red.

Another equally good purple leaf canna is J. C. Vaughan, with larger and darker flowers than the preceding; an extra bloomer.

J. D. Cabos and President Carnot are both good varieties that cannot be dispensed with, though J. D. Cabos fades out considerably this dry season.

Count Horace de Choiseul is a variety giving satisfaction this year, though it has done poorly with me for the two last seasons.

Mlle. de Crullion should be planted for its odd shade of yellow, shading to terra cotta; it is a free bloomer.

Everyone should have some plants of C. Ehemanni, with grand foliage and beautiful drooping carmine flowers on stray stalks, entirely different from other varieties. It is a gem when well grown. There are other good varieties, as Paul Bruant, Trocadero, H. Vilmorin, Egandale, that did well with me last year, but the above named are the best this year. Of the newest or later introductions that I am testing or have seen, the first one, Koenigiu Charlotte, very brilliant scarlet with a broad band of golden yellow, flowers of good size and substance, petals not very broad; it will become very popular, a decided novelty. Paul Sigrist in color is an improvement on Mme. Crozy, but the flowers lack substance and do not last well; it may improve with cultivation.

Lemoine's Eldorado is a grand blooming canna, color light yellow, good sized petals and good substance.

Columbia, an Iowa raised seedling, raised by Kramer & Son, as seen at the Chicago Exposition, also in 1892 at Marion, is a magnificent variety; color bright red; flowers large, upright and supporting one another well on the stalk. Gives promise of being a standard sort in first class. Orange Perfection is another variety that I am testing this year, a dwarf; the color orange scarlet. I do not think much of it with this season's trial.

The following varieties, seedlings raised

by Mr. Crozy and under control of J. C. Vaughan, are extra good: My notes of varieties at the Chicago Fair show 103 and M. Mesnier, 107, Chicago, 118, and 124 not named, were extra in 1893; this season they have kept up their high standing. No. 124 is in style and color of F. Vaughan, but larger flowers. Magnificent, No. 116, P. J. Berckmans, 126, J. W. Elliott, and 127, Mme. A. Bouvier, are all good sorts; also 100, F. Guillard. Another variety worthy of mention is Admiral Gervais.

In the exhibition hall at Atlantic City were three varieties that are identical, viz., Florence Vaughan, introduced 1892; Anton Barton, introduced 1893; and Comte de Bouchard, 1894; it is not right for the French growers to do this, and this society should appoint a canna committee to devise a remedy.

Recollections of Atlantic City.

Your correspondent from Buffalo was away from home and knows little of what occurred, but found the beautiful city in the same place and everybody well. The few hours that have elapsed since his coming home have been spent in sweet reverie of what he saw at the seashore, and particularly among the brotherhood of florists, and here is what he recollects:

That the convention of 1894 was a success in every way. The balmy breezes of old Neptune were a benefit to all.

That you could eat more, drink more and retire later, and yet come up smiling in the morning beyond all expectations.

That Grove P. Rawson's recitation on chrysanthemums reminded one of the Comanche war-whoop—"once to be heard to be remembered forever." It was a pyrotechnic display in words. Its delivery has never been equalled in the history of the society.

That the beads of perspiration on Burt Eddy's baldness after the impersonation of "Sir John" were the largest and purest up to date.

That there was altogether too much flirting going on by alleged single men on the different hotel verandas.

That there were fewer cases of an exuberance of conviviality than the writer ever remembers on any similar occasion.

That Little Woodie seemed to have decreased in stature at least $\frac{1}{8}$ of an inch, but had made up for all that in a remarkable amount of snap and ginger.

That Jackson Dawson and Prof. Cowell wasted a good many valuable hours in hunting weeds in the New Jersey swamps, but from their gait and talk they seemed to have found something else.

That it was a pity the members were so much scattered. Half a dozen men from a distant town were domiciled in four or five different places.

That there was an unusually large attendance of the fair sex. This largely accounts for the remarkably decorous behavior of the vast majority of the members.

That the sights from the board walk were to a greenhorn something entirely novel and inspiring; all conceivable shapes and sizes were there, but so great was the variety that even oddities passed unheeded.

That the shooting was ably managed by Mr. J. Burton and was a very pleasant and exciting feature of the last day. The referee, Mr. C. D. Ball, was indisputable; not a decision was questioned and harmony reigned supreme.

That the candidates for the presidency were better friends after the election than before if possible.

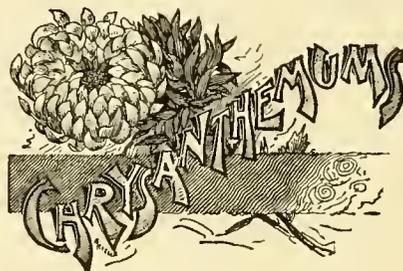
That New York and Philadelphia utterly ignored the existence of any other bowling team except the two and found that in bowling as in horse racing the unexpected often happens. Take warning from these young men and place more dependence on your veterans, even if they be counted "scrubs" at home. It's the veterans who will support the banner when it comes to public performance.

That there is a little room in Buffalo adorned with three silver cups and a beautiful banner, not to mention a corkscrew, for all of which we are devoutly thankful.

That we shall try never to forget the great hospitality of the Philadelphia club in every way—solids, liquids, kind words and all included.

And last, but not least, that John Westcott is without reserve the most whole-souled, happy, respected and influential manager that was ever put at the head of a bowling committee or any other committee.

Finally, when we can get a "mum" 2 feet across with a stem of the similar dimensions of the underpinning of W. K. Harris we will have the ideal flower, and now we hope to *Kiff* ourselves in good order for Pittsburg. W. S.



Chrysanthemum Notes.

The plants for the last month have grown very strong, and where they are in shallow benches have probably filled the same with roots and have extracted the best part of the loam, and unless heavily manured at the start will need top dressing. A close watching of the plants will easily tell one whether this is needed or not, for if they begin to flag or the foliage begins to grow smaller it is exactly what they want. Top dressing at this time is far preferable to so early liquid manuring, and makes a splendid mulch for the roots that are near the top of the soil.

If there wasn't bone enough worked into the compost give the soil a good dressing of flour of bone now and carefully scratch it in with a weeding hook. Carefully here means with great care, for the roots are near the top and will be broken if this advice is not heeded. If the bone is not worked into the soil as soon as the water is turned on to it it will form a crust like plaster, and the plants will not get the immediate effect desired. Cover the bench then with a coating of manure. Cow manure is preferable, but don't use it too green; manure that has stood through the summer and been turned once or twice is just what you want.

Some growers advise the taking off of some of the lower leaves, but we doubt the expediency of this, and fail to see any good reason for doing so, and if overdone and too many leaves taken off it will surely be detrimental to the growth of the plant. The leaves are the lungs of the plant; that is, they perform similar duties in the organization of the plant to the lungs in the human body, and the more leaves the plant can carry the better for its growth and product. So rather than

to strip off the leaves we would much prefer to give the plants plenty of food and water and keep them on to help the plant finish its bloom. Of course if any of the leaves turn yellow or brown and lose their life, as they sometimes do when they grow very thick, we immediately remove them.

If an exceptionally fine looking crown bud now makes its appearance we would advise taking it, and tag it and make a note of it in the book, but we do not mean to advise the taking of all the buds of any variety yet. Just select one or two for an experiment, and trust the balance of the plants to a later bud which we know will give a good flower. But from these one or two of a variety you will know what the late August crown will produce. However, don't try any of the darker varieties, especially reds, for the crowns of these are practically worthless anywhere, for the bud is so long in maturing that they fade and look washy when finished. E. A. WOOD.

Judging New Chrysanthemums.

In the course of a correspondence with some of the leading raisers of new chrysanthemums a mutual interchange of views on the subject of judging seedlings occurred, which induces me to give some views on the subject.

All growers, raisers and dealers in new chrysanthemums agree that something should be done by the national committee towards the formation of a tribunal to which all new varieties seeking honors should be sent. This would simplify matters enormously. The standing committees of the various horticultural societies are not fully competent to deal with so important a matter, and the result is a great number of new varieties, in many respects similar, and often inferior to those already in cultivation, are yearly thrown on the market. I would suggest this matter for the consideration of the S. A. F. at their next meeting at Pittsburg, and I herewith enclose my views on the subject:

A committee of five experts of national reputation should be selected, representing the florist (grower and retailer), the gardener (professional and amateur), and the flower artist. There should be three meetings about the 20th of October, the 5th and 20th of November, at some central city like Buffalo. Some competent man should be selected to superintend the arrangement of the exhibits, and put up those received from growers who could not attend. T. D. HATFIELD.

Sowing Pansy Seed.

In the article on sowing pansy seed in the convention number, I think that Brother Scott was rather prompt in passing judgment on the process of mulching the seed beds, as I recommend to my customers, and if he could see my seed beds now, he would surely concur in my opinion. Last season, in August, under that process, in open field, I sowed 8 ounces of seed broadcast, and in ten weeks' time had sold 78,000 young plants from these two beds, each 150 feet long by 3 wide. This season I got in about two pounds of seed the same way, in the open field, as where in the world could I have had frames and sashes enough to do it all?

I used formerly, as Mr. Scott suggests, drill in the seed in frames, but at a considerable expense of time and labor, as young plants grown so thickly together will require immediate attention, or else damp off or get drawn up, while under the mulching process, sown broadcast

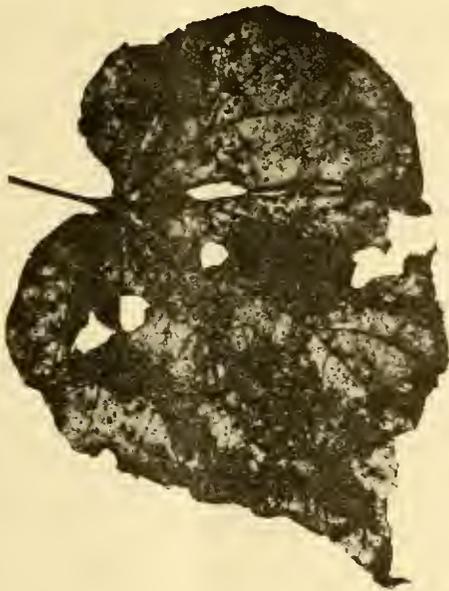


Fig. 1.

NEMATODES IN BEGONIA LEAF.

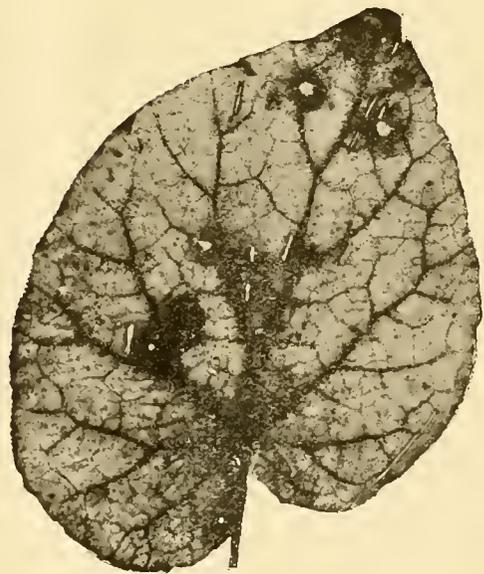


Fig. 2.

LEAF SPOT OF BEGONIA.

and thickly in open field, the plants can stay and grow for months without interfering with each other, till either sold or transplanted, and are also more stocky and hardier than when grown in frames.

Seed is sown and mulched, as I recommend, requiring no further care than an occasional watering, which we do with our hose sprinklers, connecting with my large tank, and removing them every hour. Such a watering over the mulch will not beat the ground hard and keep the ground moist for several days; at the end of two weeks the seed will be up, when I remove half the mulch with a fork, to give air and light to the seedlings, and in another two weeks the balance of the mulch is removed off with a wooden rake, and with occasional weeding, is about all the work required. Perhaps I was not explicit enough in my advice on sowing, as I do not cover the seed at all, only brush it in lightly before pressing in. I half suspect that in several cases our friends covered the seed too thickly, and it smothered some.

I have, on the whole, congratulated myself in getting to use such an effective and expeditious way of raising pansy seedlings.

DENYS ZIRNGEBEL.

Begonia Diseases.

The samples of diseased begonia leaves forwarded to me from your correspondent did not arrive in good condition, and I am not fully able to state just what the trouble is. There are two leading diseases of the leaves of the begonias, and photographs of these are sent you for the purposes of engraving, for these troubles are sufficiently abundant and distinct as to warrant space being given to them.

The first and, so far as my experience goes, most abundant trouble is the one shown in leaf number 1. This unsightly and ruined leaf illustrates the inroads due to microscopic worms known as nematodes or eel-worms. They thrive in great numbers in the loose moist tissues of the begonias, and when in the leaf cause large irregular blotches, which after becoming brown and lifeless fall away and cause the ragged appearance as seen in figure 1.

Many other plants of the greenhouse

and open ground are troubled with the nematodes. In many cases they are confined to the roots, when knots and galls are produced. These may be met with among violets and more particularly with hot house roses, where they are a serious pest. Truck crops, as tomatoes, radishes and the like also suffer from the nematodes at the roots. Among plants that are affected with these microscopic worms in the foliage may be mentioned the coleus, bouvardias and pelargoniums. Buried as they are within the substance of the leaf there is very little use of spraying the foliage, and all diseased parts should on the other hand be removed and destroyed.

The second form of begonia disease is due to fungous parasites, there being several that cause a spotting of the leaf in a manner shown in figure 2. Often the spots will be small and numerous, and again they are few and broad in extent. These fungi are like other leaf spot fungi, some of which have been treated of in the *FLORIST*. They can be controlled without doubt to some extent at least by using the standard fungicides as sprays upon the foliage.

The leaves received from you were of the second group, but, as before stated, were not in a good condition to determine the species of fungus that had done the mischief.

BYRON D. HALSTED.

New Brunswick, N. J.

Best Method of Wholesaling Cut Flowers.

[Read before the St. Louis Florists' Club by Mr. C. W. Wors.]

The subject of this essay requires very careful consideration, and I ask of you your indulgence, as I have to write about as much in reference to the retailer as I have the wholesaler, sincerely hoping to offend none.

I will speak firstly in regard to what the grower should expect from the commission man or wholesaler. First and foremost, a square and honest deal, that is, that every dollar of sales made by the commission man should be rightfully turned in to the grower, and if he cannot make honest returns for 15% let him charge more. I maintain that if the

grower ships good flowers a good salary can be earned at 15%, but if he sends poor flowers he should pay the commission man a salary for handling the same. In my experience I have always found it easy to get rid of good flowers and very difficult and discouraging to get rid of poor ones.

Now in regard to the market and price of cut flowers: Flowers should be sold first and foremost according to their quality, no matter whether the market is glutted or not. Secondly, flowers should be sold according to supply and demand, whether it be summer or winter. It may seem strange, but nevertheless it appears to me that good roses should command a good price in summer, first because roses, especially good ones, are very scarce, and as people don't buy flowers in summer unless they really need them a good price can be obtained. And as a more uniform price can be given in summer to the grower, he can afford to sell his flowers at Christmas time cheaper and prevent the greatest detriment to our business, the uncalled for high prices during the Christmas season.

If the growers could obtain better prices from October to June, I mean a better average price, they would be satisfied with a less price at holiday time. To illustrate this I may mention that in conversation with a large grower over these high prices at Christmas he offered me his whole cut of roses for the season, including Beauties, at 3 cents each, so according to his own figures he could make money at these prices. Of course I could not handle his flowers in this manner and do justice to my other growers. He said that the average price received for his roses compelled the high prices at Christmas. Let the retailer help the wholesaler and grower out by keeping up prices, and instead of lowering the florists' business to a jobbing standard let him elevate it, being assisted by the grower, who would strive to grow only flowers of the finest grade, and whose maxim should be quality and not quantity.

The grower should, as I said before, grow flowers of the finest grade, but let him be paid for his trouble, let him know

his flowers are sought after because they are superior and at the same time let him have a few dollars extra for his trouble. Let him also ship his flowers and pack them carefully, many a dollar being lost to the grower on account of careless packing, and many a rose on account of not being cut at the right stage or having been kept too long before shipping. There is also a very foolish custom at holiday time of holding back flowers which could have been sold at good prices had they been shipped, and which when they arrive are in a worthless condition, a total loss to the grower and a big disappointment to the wholesaler and retailer.

Now I propose to read what I believe to be the very best way for a wholesaler to treat his regular buyers. I don't think it is right for the wholesaler to favor one customer more than another, but there are certain circumstances which should be considered by the dealer in conjunction with his shippers and buyers. In certain cases the retailer should get certain privileges from the wholesaler, and I shall endeavor to explain these privileges to the best of my ability, and trust that if there are parties present who do not agree with me they will get up and declare themselves when this essay comes up for discussion.

Now in regard to these privileges which I think should be given by the wholesaler to his regular buyers: When a grower ships his flowers to a commission man he takes the entire risk, and a big risk at that. He has already grown these flowers, risk number one, and number two when he ships them to be sold. When a wholesaler has a buyer who buys daily a certain number of each kind, and who daily lays in a stock of flowers for his store, these flowers not being ordered perhaps, he, the buyer, then takes his place with the grower, that is, the grower with whom he shares the risk. The buyer not having the flowers ordered stands a risk of losing these flowers; these buyers should receive a percentage off the marked figure, in preference to the buyer who only purchases when he has an order or when he receives a message through the telephone. The latter class of buyers do not require to make the profits that the florist does who shares with the grower the risk and buys his flowers without having an order for the same on his file.

Then again a buyer who pays his bill every week without a murmur and who does not require you to wear out your shoe leather ought to receive consideration from the wholesaler, and I know that my shippers would be perfectly willing to get a little less for a certain sale than a larger price for an uncertain one, especially when the grower receives a weekly settlement.

Now there is another matter which concerns the wholesaler, grower and retailer—the selling of job lots, or in other words, the selling of poor flowers at reduced prices, my opinion being that the selling of job lots hurts both the retailer and the grower. If flowers were grown for quality only there would not be that glut of flowers; it appears to me it would be better to give away a few flowers rather than lower prices. But if this jobbing must be done let it be confined to the fakirs and to parties who do not confine their sales to flowers alone.

Let every reputable florist stand up for his business; let him not bring his trade down to the level it has gradually been working to; let the grower grow a fine grade of flowers, and let the retailer get a fair price for the same, and then there will be good times for the florists again.

Why, to think of the energies of our flower loving growers, who have spent their lives in trying to beautify and improve by cultivation the work of nature, and then to see their work brought down and men who handle flowers care so little about it that they lower their standard by making sales of flowers at the level of other commodities. Let all the florists work together to elevate the trade, and by doing this they will help themselves and help the grower.

Worms Attacking Cannas.

We are very anxious to know if there is a remedy for the worms which are so very destructive to the beautiful foliage of our cannas. We notice two kinds. One is a small worm at first which is concealed under the edge of the leaf and which soon grows to be a very large worm. The other is apparently the caterpillar. Is there anything to destroy them?

J. M. CONNELLY.

Charleston, S. C.

The above inquiry was referred to Mr. F. R. Pierson, Tarrytown, N. Y., who replies as follows:

"Your inquiry in reference to worms at hand. I have never known any kind of worm to attack foliage of cannas and cannot give you the information. It must be a caterpillar indigenous to the south, as nothing of the kind attacks cannas in this section, and have never seen the foliage marred in any way. From Mr. Connelly's description I should presume it was of the caterpillar order. Any insect that eats the leaves can be easily held in check by insecticides; would recommend Paris green or something of that nature."

Chicago.

Our handful of pilgrims to the convention has returned in a most enthusiastic frame of mind. Every member is loud in his praises of eastern hospitality, and all are agreed to have had a most enjoyable trip, and a royal good time generally. This is rather tantalizing to the "stay-at-homes," and makes them feel more blue than ever. With the majority, as is well known, it was through no lack of interest which kept them at home, but with them it was simply Hobson's choice. The annual resolution regularly made, and as regularly broken soon after, is now on the program. To put by the sum of 50 cents every day from now until the next convention day arrives seems an easy way of accumulating the necessary funds for the purpose. A number of the boys stick to this resolution religiously for three or four months, but alas, that is often the limit.

The aquatics at Lincoln Park are looking very fine. The ponds as viewed at present are worth a visit from all lovers of this class of plants. That the display is appreciated by the general public is well demonstrated by the admiring thousands who daily throng this section of the park. The most showy varieties at present are *Nymphaea Devonensis*, and several other red varieties, notably *N. Sturtevantii* and *N. rubra*. *N. zanzibarensis azurea* is also in fine bloom. *N. gigantea* shows but two open flowers, but these are superb. *N. dentata* and *N. scutifolia* are also in fine bloom. The *Mariaceae* section is well represented, and all the plants are well flowered. The *nelumbiums* are still in bloom, but a trifle past their best. The two specimens of *Victorias* may be seen with an open flower apiece each day.

The flower beds are now in fine shape. Among the most striking objects in this line is the gorgeous display of cannas. The perennial borders are brilliant with color, and never looked better. Phlox a little past, is still very showy, but among the most effective at this season of the year are our own native prairie flowers. There is a large variety of them, notably such forms as *helianthus*, *silphiums*, *Lobelia cardinalis*, *lythrus*, *asters* and many others. It is rather amusing to listen to some of the comments made upon these flowers by some of the visitors. We noticed the other day a couple of gentlemen admiring a group of *Lythrus superba*. One of the gentlemen, a well known resident of the north side (Lake View) was heard to make the remark: "What a remarkable plant! must be something new, as I have never seen it here before; looks to me like a tropical plant." Now this gentleman has resided in Lake View for many years, and he might find even to-day within a couple of blocks of his residence a number of vacant lots that are covered with this flower. But what might be said of this *lythrus* equally applies to many other varieties. Ninety-nine native born Chicagoans will admire these flowers when seen grown in our parks, but when met growing wild in the fields will pass them by as common prairie weeds.

The flower market is very quiet, and prices rule at last week's quotation—quality continues to improve.

Harry Mann and bride, of Lansing, Mich., spent a few days in the city on their way to Honolulu, Hawaii, where they will make an extended visit.

Indianapolis.

The August meeting of the Indianapolis Florists' Club was held at the club rooms Wednesday, August 1. The attendance was good in anticipation of the superintendent of Crown Hill Cemetery, Mr. Chislett, being present. He did not come, however, but excused himself and invited a committee to meet him at the cemetery most any time. This proposition was accepted and the secretary instructed to call the committee together at a proper time. A memorial written by the appointed committee, which was to report at this meeting, was presented and accepted without a dissenting voice. It sets forth that it is not the purpose of the Florists' Club to fight against the proposed exclusion of flowers and plants at the cemetery from a pecuniary purpose, but principally for the fact that should the new rule be enforced the sentiment of the general public would be changed against flowers in parks and other places. Cemetery work in general is not profitable to many florists, but they would not like to see flowers excluded from the cemeteries. Many well pointed paragraphs were included in the memorial; the same will be handed to the trustees of Crown Hill Cemetery and also to the Ministerial Association of this city. As this important matter took up a good deal of time the meeting adjourned.

Mr. Chas. Wheatcroft has added one house 88x13 for roses, and also has another house the same size under way.

Welcome rain fell to the depth of two inches August 10, but it also brought along a fall of hail, but only in the western part of this county; while quite heavy it did no damage.

Mr. A. Wiegand reports having had a very pleasant time traveling through California and the northwest. He thinks in general the greenhouse establishments he

has visited are not up to the times; they should receive more attention.

The writer returned from a pleasant two weeks' vacation to Elkhart Lake, Wis., a small but beautifully located lake encircled by a great variety of small and large evergreens and other trees. Arborvitæ grows here in great abundance, some extra large specimens seemingly being very old, and they certainly must be. Wild flowers, ferns and native varieties of orchids grow in abundance in the surrounding country; the drouth this season there, however, has cut everything short and permits walks through the swamps on soft beds of sphagnum.

The following appears at the head of many cut flower commission billheads:

PLEASE NOTICE.—These flowers were FRESH and CAREFULLY PACKED to reach you in GOOD CONDITION and shipped as directed on TIME. We are NOT RESPONSIBLE if they do not reach you on time, or in good condition as we do not regulate the RAILROADS or the WEATHER. A loss resulting from the above will not be entertained by us.

This does not seem to be just the thing; when one lot arrives in first-class shape another lot is shipped probably the next day under the same conditions as to weather, packing, etc., but comes in such poor shape that they fall to pieces or are black from handling. Does this not seem to suggest it is old stock kept from the day before or longer? A retailer when charged by a customer with having delivered shaky flowers in most cases can only replace flowers or money or lose the customer. Of course there are exceptions when complaints are too regular or when there is sign of fraud.

A communication from Cleveland appeared in your issue of July 26 headed "Look out for him." The same fellow has worked his game successfully in this town, claiming to be the patentee and sole agent for the wooden hose coupling. He wanted to establish an agency in this city and state. From samples he carried with him he sold several large bills to breweries and jobbing houses. He expected the goods every day, but claimed on account of the strike he could not get them. The writer, knowing him to have sold these couplings for many years, and it really being a good selling article, believed him and advanced him some cash and flowers; he also managed to get cash from a brewing company. Of course the hotel is loser also, but they have his trunks and belongings. He had a woman claiming to be his wife with him. His name is J. J. VanJulay, is forty years old, weighs 142 pounds, about 5 feet 5 inches tall, sandy hair, darker bushy mustache, wears gold spectacles, rather inflamed eyes which he wipes frequently, talks considerably broken English with German accent, claims to have been very rich at one time in the old country, and knew every prominent florist in this country. The fellow should be run down.

John Hartje, our young fisherman florist, is adding a house 140x12, to be planted with his new carnations.

It is proposed to change the name of the local club to the Indianapolis Floriculture Society.

The Indiana Horticultural Society held summer meeting and exhibition at New Amsterdam, Ind., on August 22 and 23.

W. B.

Toronto.

Not a drop of rain yet. The drouth is getting serious, especially to those who are outside the city limits, and who cannot make water flow by just a simple twist of the wrist. But the nights are lengthening, the days are not overpower-

ingly hot, and there are heavy dews, so that to speak figuratively "the wind is tempered for the shorn lamb." The beds in the parks and gardens don't appear to have suffered much yet, and are looking especially fine just now. Some large sub-tropical beds I saw in Reservoir Park today have grown most luxuriantly; they are tastefully planted and are remarkably effective. The deep ravine with wooded banks and gurgling streamlet make this park the most charming in the city, and Mr. Reeves, the superintendent, is increasing its beauty every year.

The lily pond at the Central Prison grounds is a sight to behold and not forget just now; the size of the blooms is something immense, I am afraid to give dimensions. Victoria Randi is growing well and will flower if the weather keeps warm two or three weeks longer.

The tuberous begonia beds at Exhibition park are looking very well now, and are flowering freely. A bed of these is very pretty and effective when all the plants do well, but I doubt if they will ever be quite a success as a bedding plant in this climate.

The Gardeners' and Florists' Association held its regular monthly meeting Tuesday, August 21; it was not very well attended. "Public Institutions" occupied most of the time, and it is safe to say that if the views of one or two of the members were followed out to their logical conclusion the association would soon be reduced to its original fragments. Broader and more fraternal views will, however, no doubt prevail, and such a calamity need not be looked for.

Mr. H. Slight is still at his old stand on Yonge street. How the business was arranged has not transpired as yet.

As we cannot go to Atlantic City we are having as much fun as we can at home; another cricket match was played between the east and west end gardeners and florists at the Exhibition grounds, and those of the boys who went up there spent a most enjoyable afternoon.

Trade is very, very quiet and what flowers are coming in cannot be called first-class; there will not be much doing until the frost comes. E.

Cincinnati.

The regular monthly meeting of the Cincinnati Florists' Society was not held this month, owing to the extremely warm weather and the absence of one or two of the officers, who are still out of the city.

The long looked for and much needed rain has come at last and has gladdened the hearts of the florists. A great deal of outdoor stuff has suffered for the want of water. We hope now the rain famine is a thing of the past.

There has been no change in business. It is still dull, very dull, and were it not for funeral work there would be nothing going on at all. Roses have been more plentiful this week than for some time past, and the demand very light. More roses have been cut right here at home than could possibly be disposed of, and still outsiders are consigning stock to the wholesalers, and consequently the returns are very small.

Mr. Chas. J. Getz has greatly improved his carnation houses by putting in a new water system, which will save a great deal of work, water and hose. His carnations are in excellent condition.

Mr. John Lambert of Norwood has just completed four new houses 10x60.

Mr. Max Rudolph of 12th street is remodeling his store. When it is completed it will be twice as large as his old one

and will be one of the finest in the north end of the city.

Nothing especially new to report regarding the cut flower business of our city. August 28 about 1 p. m. the writer happened in at one of our 4th street stores and casually asked if the passing of the tariff bill had caused any difference. The florist immediately spoke up and said, "You bet your life; I just took an order for an \$8 design." But taking the last three months into consideration the general report from our store men is that they have never passed through such a dull summer.

The florists attending the S. A. F. convention at Atlantic City all returned Sunday feeling good with the exception of Wm. Murphy, who was unwell on his return.

Richard Witterstatter is building a new greenhouse 80x17, short span to the south, for the purpose of growing seedling carnations. Richard already has some prize winners, and more coming. Most of our carnation growers have commenced lifting their carnations and getting ready for fall trade. The recent rains have helped our florists out materially.

Jas. R. Galdman and F. Howard Felter of Middletown, O., are building four new greenhouses. They expect to grow a general retail stock. One peculiar feature of this firm is that they are both mutes.

Mr. E. G. Hill of Richmond, called on us yesterday; his health is greatly improved, which his host of friends will be glad to know. G.

Worcester, Mass.

Antirrhinums, German stocks and pinks (all kinds) was the schedule for the weekly exhibition August 9, and in these classes very fair displays were made. The premiums were awarded as follows:

Antirrhinums—first, T. H. Record; second, F. A. Blake. German stocks—first, F. A. Blake; second J. A. Abbott. Pinks—first, S. H. Record; second, F. H. Merrifield. A. A. Hixon and H. A. Jones each showed a splendid table of sweet peas and F. A. Blake a vase of Liliun Harrisii that were very fine. Several good stands of cut flowers were exhibited, those shown by H. M. Chace, S. E. Fisher and S. H. Record being especially good.

A. Lawrence brought up a rather queer freak, a fungus, weighing 8¼ pounds, which he found in a swamp.

Trade runs along about the same; nothing very interesting to note. Weather cool and everything suffering from drouth, carnations suffering most severely; chrysanthemums looking well.

The aster show August 23 was a success; good asters in all classes except the pompon, and enough entries to make it interesting; also good exhibits of gladiolus (Lemoine's hybrids) and perennial phlox. Following are the premiums awarded:

Asters—Rose, first F. P. Alexander, second H. B. Watts; Comet, first J. A. Abbott, second Mrs. E. C. Brooks; Victoria, first F. P. Alexander, second C. E. Parker; Pompon, no first awarded, second T. H. Record; Truffaut, first Mrs. E. C. Brooks, second W. J. Wood; vase, one color, first H. F. A. Lange, second Mrs. Samuel Overend. Gladiolus, first H. B. Watts, second F. A. Blake; phlox, first Grace T. Johnson, second Mrs. Thomas Ward.

SEEDLING.

WHENEVER you want anything pertaining to the trade, and do not find it offered in our advertising columns, write to us and we will take pleasure in assisting you to find what you want.

News Notes.

Mr. E. V. Low, of Hugh Low & Co., London, will visit this country next month.

DUNKIRK, N. Y.—T. F. Van der Meulen is adding new glass for carnations and violets.

PROVIDENCE, R. I.—Edmond J. Johnston will continue the business of his father, the late Robert Johnston.

LOUISVILLE, KY.—C. Neuner, of Nanz & Neuner, left August 21 for California and Oregon, to be gone several months.

HOPKINTON, Mass.—W. & M. Cheney have purchased the florist business of L. L. Woolson and will remove it to Bare Hill.

NEW YORK.—The firm of Millang Bros., wholesale florists, has been dissolved by mutual consent, and the business will be continued by Mr. Frank Millang under his own name.

EASTON, PA.—Wm. F. Keller has removed to 227 Northampton street, where he has more commodious and finer quarters. He now has a handsome salesroom, large basement, and an additional room for storage of supplies.

PEORIA, ILL.—Jos. M. Cole, who has been in business here for the last eight years, has sold his entire business to Cole Bros., who moved into his store on August 1 and have combined his with their extensive stock. Trade here these hot days is as dull as it can get; if it was not for a little funeral work the florists could close their stores.

HUDSON, MICH.—The dry hot weather has cooked everything except where water has been very freely used. Most of the beds in town have suffered, but a few are looking very fine. The recent cold weather, which ended in a frost that killed corn and potatoes on low ground, made us think that fall was coming, but we have changed our minds now. C. H. Peck, our city florist, has purchased five acres of land just over the corporation line west of the city, and is now moving his entire greenhouses to his new location. He will add one new house of 1000 feet of glass, to his greenhouses, for carnations. The houses will all be heated by steam.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

SITUATION WANTED—As florist, by married man. State wages. Address J. LEE, 627 Oak St., Kalamazoo, Mich.

SITUATION WANTED—By a good all round man; can take full charge; married, no children. Address A C B, care American Florist

SITUATION WANTED—By first-class florist; German; 16 years' experience. Best of references. Private or commercial place. Address FRANK OTTO, Oconomowoc, Wis.

SITUATION WANTED—By competent, single florist and gardener; well posted. Please give full particulars in answer. Address WM. B. K., 726 Spring Garden St., Phila., Pa.

SITUATION WANTED—By young man; have had 5 years' experience in the trade; am single; can furnish good references if desired. West of the Mississippi river preferred. Address WEST, care American Florist

SITUATION WANTED—By young German gardener with 8 years' experience in Germany and America, wishes a position where he can learn the English language. Address JOHN SCHNEIDL, care Dr. Vojte, Oconomowoc, Wis.

SITUATION WANTED—By young man with 8 years' experience in growing out flowers and a general line of plants. First-class designer and decorator. Best of references. Address C B K, 317 N. Vermillion St., Danville, Ill.

SITUATION WANTED—By thorough, practical gardener and florist, No. 1 rose grower; commercial or gentleman's private place; carnations, violets a specialty; best references. Address H G, P. O. Box 33, Brooklyn Village, Ohio.

SITUATION WANTED—By a young married man, age 32, as grower of roses, carnations, chrysanthemums, palms and ferns, etc.; can assume all responsibility if desired; 5 years in last place. Address GROWER, 285 Adams St., Grand Rapids, Mich.

SITUATION WANTED—By florist; age 24, German; 9 years' experience in roses, carnations and choice cut flowers; also pot plants. Best of references. Please make known offer at once. Address FR. N. QUICKERT, care Selby Myers, St. Joseph, Mo.

SITUATION WANTED—Middle of September by a German, 29, as greenhouse assistant; well up in growing cut flowers. Roses a specialty. Can take charge of a small commercial place. East preferred (Philadelphia). Address B E, care Am. Florist.

SITUATION WANTED—As foreman, by an expert in roses, carnations, violets, bulb forcing, etc. Al orchid, palm and fern grower. Thoroughly posted in all the different departments of the trade, in or out-door. Address POSTOFFICE BOX 75, Short Hills, N. J.

SITUATION WANTED—As foreman and grower in a medium sized commercial place, where cut flowers, stove and bedding plants are grown. Good references; 5 years in this country; speaks German and English. Address Short Hills Postoffice, N. J.

SITUATION WANTED—As assistant in first-class wholesale or retail place, by young florist; 9 years' experience; good all-round florist; sober, industrious, reliable, and not afraid to work. Al references. State wages. Address ASSISTANT, care American Florist.

SITUATION WANTED—By practical florist, highly recommended, for experience and executive ability in the general requisites of commercial or private place, the nurseries, general propagation, etc., where such is needed. For particulars address BROOKLYN, care American Florist.

SITUATION WANTED—As assistant in greenhouses or store, by young American, single; used to first-class retail trade. Experienced in general greenhouse work and management; practical, reliable worker. Good salesman. Abstainer. Good references. Address E P P, care American Florist.

SITUATION WANTED—By a single man, age 26, a good all-round man, to take charge of a commercial place or city store, and if necessary can take charge of books and correspondence; southern states preferred; fl st-class references furnished. Address M C, care The C. A. Dahl Co., Atlanta, Georgia.

SITUATION WANTED—By a young man working foreman in a commercial place; quick, sober, and reliable; a good all-round man, where strict attention to business is appreciated. A good designer and maker-up for city store. If necessary can take charge of books and correspondence. Best of references furnished. Southern States preferred. Address with all particulars to CHAS. MOSS, 421 Mississippi Ave., Memphis, Tenn.

WANTED—Gardener and florist for private greenhouse and grounds. Address J. C. EASTON, La Crosse, Wis.

WANTED TO RENT—About 5000 feet of glass in a good town west of Chicago. Address A C B, care American Florist, Chicago.

WANTED—At once, assistant in private greenhouses; German, with some experience preferred. Salary \$40 per month without board. Address H A, care American Florist.

WANTED—In private place, capable, single man of good habits, to take charge of conservatory, lawn and vegetable garden. German preferred. Address MRS. G. W. BARNES, 2369 Collingwood Ave., Toledo, Ohio.

WANTED—Sober, industrious man, one who understands growing potato plants, etc., as well as flowers, and can take and execute orders as given willingly. Will make contract on shares or for salary. Write fully your expectations. Address S S, care Frith & Langham, Nashville, Tenn.

WANTED—A young man experienced in growing roses, carnations and a general stock, also good designer and decorator; must have A No. 1 references and not afraid of work; one with a small capital preferred; one capable of taking entire charge. Chance of a lifetime for right man. Address PALMS, care American Florist.

FOR SALE CHEAP—Large second-hand florist's Ice Box, value about \$75. GILMAN'S SEED STORE, 88 State Street, Chicago.

FOR SALE—Small florist business in one of the best locations of the South Side, Chicago. Address A B, care American Florist.

FOR SALE—Double "Florida" steam boiler No. 63; good as new; a great bargain. Address A. S. EWING, Chillicothe, Ohio.

FOR SALE OR RENT—Greenhouse, 2000 square ft. glass. For particulars inquire of THEO. NOEHLE Green Bay, Wis.

FOR SALE CHEAP—A first-class florist business in a thriving town of 25,000 inhabitants. For particulars address WISCONSIN, care Am. Florist.

FOR SALE CHEAP—Large, new hard wood and glass florist refrigerator. Used at World's Fair. Price reduced to \$175. VAUGHAN'S SEED STORE, 146 & 148 West Washington St., Chicago.

FOR SALE—No. 5 Scollay boiler, used only 3 winters all in good condition; reason for selling, having put in 40-horse steam boiler; price on application. J. E. FELTHOUSE, Schenectady, N. Y.

FOR SALE—Complete file Am. Florist, 9 Vols., 5 bound and 1 binder; also 1 10-H. P. upright boiler, 1,000 feet 1-inch pipe, 200 3x6 ashea, 1,200 10x12 lights of glass. WM. H. BARNES, Box 845, Independence, Kansas.

FOR RENT—The premises occupied by the late R. J. Purvis, gardener and florist at Edgewater. Mr. Purvis lived there for 20 years, had built himself up a large and flourishing trade, which is still open to his successor, in one of the most flourishing and growing districts in Cook county, or perhaps in the State. For particulars inquire of ROBERT PURVIS, 1035 Ridge Ave., Edgewater, Cook Co., Ill.

SEED TRADE.

WANTED, for a San Francisco Seed House, a thoroughly experienced couiter man, with some knowledge of plants; willing to travel occasionally. Address stating age, experience, and salary expected, Q, care American Florist, Chicago.

FOR SALE.

Wholesale and retail ornamental nursery and greenhouses, in the best residence city of Southern California. Fine business location and complete stock, fixtures, etc. A rare opening for the right man with moderate capital. For particulars address "CALIFORNIA," care Am. Florist.

FOR SALE.

Six (6) greenhouses, two hot water boilers, about 2000 feet 2-inch wrought iron pipe, valves, etc., lot of hotbed sash, frames, benches and about 35,000 flower pots. The entire plant will be sold at a very low cash price, as the whole must be removed off the premises before Sept. 1st. For particulars address L. R. MUNN, Station C, Brooklyn, N. Y.

FRITZ KLEIN.

Who can give me any information in regard to Fritz Klein, gardener, of Naurod, near Wiesbaden, Germany? The last was heard of him at Boston in the year 1873; since then he was not heard of. Information about him will kindly be sent to.

MR. F. SEULBERGER, Seedsman and Florist, 509, 511 & 513 Seventh St., Oakland, Cal.

NOVELTY.

New, Semi-Double, Large Flowering

WHITE MARGUERITE

(Chrysanthemum frutescens.)

Size of flowers 4 inches in diameter, petals clear white, center yellow.

PRICES FOR PLANTS FROM 2 1/2-INCH POTS, \$2.50 PER DOZEN; \$20 PER 100.

Ready September 1. Cash with order.

GRALLERT & GO., Florists,

COLMA, San Mateo Co., CALIFORNIA.

Smilax Plants Cheap.

Out of 2 and 3-inch pots, also transplanted plants out of boxes. Never had as fine and large stock before. Please state number you desire and I will give you the lowest prices. Safe delivery and best satisfaction guaranteed with every shipment. Sample order 10 cts. Terms strictly cash.

Address FRED SCHNEIDER, Wholesale Florist, Wyoming Co., ATTICA, N. Y.

YOUNG PALMS FOR FLORISTS' USE CHEAP TO MAKE ROOM.

Kentia Belmoreana	Size pots. Height. Per 100
Forsteriana	3-inch 12 to 15 in. \$20 00
Area Baueri	3-inch 18 to 24 in. 25 00
Senfortin elegans	3-inch 18 to 24 in. 20 00
Phoenix reclinata	3-inch 8 to 10 in. 20 00
Pandanus utilis	2 1/2-in. 8 to 10 in. 15 00

All stock is in healthy condition and ready for shifting on 50 at 100 rates.

MENONHALL GREENHOUSES, Minneapolis, Minn.

ALWAYS mention the AMERICAN FLORIST when writing to advertisers.

Roses.

1000 NERMETS, 600 NIPHETOS,
1000 BRIDES, 150 TESTOUTS.
All from 2 1/2-inch standard pots. These are in the very best of condition and as large as a great deal of the stock shipped from 3-inch pots.
Per doz. 75c.; per 100 \$5.00; per 1000 \$45.00.
Samples free to intending purchasers.

Pandanus Utilis.

6-inch pots.....\$5 00 per dozen
5-inch pots..... 3.00 per dozen
4-inch pots..... 2.00 per dozen

Cyperus Alternifolius.

3 1/2-inch pots, per doz. 75c; per 100 \$6
2 1/2-inch pots, " 60c; " \$4
2-inch pots, " 40c; " \$3

Grevillea Robusta.

3-inch pots, 10 to 15 inches high, per dozen \$1.00; per 100 \$3.00
2 1/2-inch pots, " 65c; " \$4.00

**NATHAN SMITH & SON,
ADRIAN, MICH.**

ROSES. Extra Cheap TO MAKE ROOM.

We will offer for the NEXT FEW WEEKS some of the best Roses in cultivation.

Sunsets,
Niphetos,
Duchess of Albany,
La France,
Souper,
White La France,
Brides,
Gontiers,
Meteor,
Bridesmaid,
Perles,
Ulrich Brunner,
Am. Beauties, 2 1/2-in.

From 2 1/2-inch pots, \$3.50.
From 3-inch pots, \$5.00.

3-in. \$6.00.
Satisfaction guaranteed. Wholesale Catalogue FREE.
Address **NANZ & NEUNER,
LOUISVILLE, KY.**

Watch this Space!

We will quote SOMETHING GOOD in the near future.

We sell only to the trade at Wholesale Prices.

Better not let your customers read your Florists' Trade Papers.

S. O. STREBY,
Lock Box 77,
UPPER SANDUSKY, OHIO.

ROSES.

Mermets, Cusins Wattevilles, Hoste, Meteor and La France, \$3.00 per 100.
Strong American Beauties, \$5.00 per 100; \$40.00 per 1000. 500 at 1000 rates.

Special prices on quantity. Let me price your lists. Cash with order.

ROBERT F. TESSON,
West Forest Park, St. Louis, Mo.

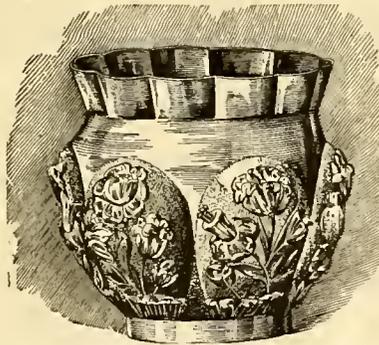
Hybrid Perpetual Roses,

Worked low on the Manetti Stock, offer the best results to the florist, blooming freely and giving plenty of cuttings for propagating quickly. Fine plants for sale by the 100 or 1000, at low rates.

Price Lists to applicants. Address

WILLIAM H. SPOONER,
JAMAICA PLAIN, (Boston), MASS.

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Silver Cup awarded us for Meteor Roses, exhibited at Madison Square Garden, 1892, for best 25 Red Roses of any variety.

Mention American Florist.

Roses for Winter Flowering.

We still have fine stocks of the leading varieties,

**AMERICAN BEAUTY,
KAISERIN AUGUSTA VICTORIA
AND BRIDESMAID,**

Strong plants, out of 3 1/2-inch pots, ready for immediate planting, \$12.00 per 100.

**METEOR, BRIDE, MERMET, MME. CUSIN,
NIPHETOS, WOOTTON and PERLE,**

Strong plants, out of 3 1/2-inch pots, ready for immediate planting, \$9.00 per 100.

**F. R. PIERSON COMPANY,
Tarrytown-on-Hudson, N. Y.**

Roses. Roses. Roses.

Perle, Niphetos, Mermet, Bride, Victoria, Meteor, La France, Albany, Gontier, White La France, Souper and Bridesmaid, 2 1-2 inch pots, \$5.00; 3-inch pots, \$6.00 per hundred.

AMERICAN BEAUTY, 2 1-2 inch, \$6.00; 3-inch, \$8.00 per hundred.

THIS STOCK IS WELL GROWN AND IN FINE CONDITION.

ESTATE OF M. A. HUNT, Terre Haute, Ind.

10,000 FIRST QUALITY FORGING ROSES.

Fully equal to those sent out the last two years, and perfectly healthy in every respect. Only selected growth from flowering wood used for propagating.

KAISERIN A. V.	MERMETS.	BRIDESMAID,	MME. HOSTE,
METEOR.	SAFRANO.	PERLE.	BRIDES.
SUNSETS,	LA FRANCE.	BON SILENE,	MME. CUSIN,
	3-inch pots, \$5.00 per 100.	4-inch pots, \$8.00 per 100.	

J. L. DILLON, Bloomsburg, Pa.

AMERICAN BEAUTY, Bridesmaid, Cusin, La France, strong, 4-inch plants. | **CARNATIONS.** All the New and Old sorts.
MARIE LOUISE VIOLETS, pot grown. Please write for prices.
A. S. MacBEAN, Lakewood, New Jersey.

ROSES AND CHRYSANTHEMUMS

PERLES, 4-inch, strong, \$7.00 per 100
MERMETS, 4-in. " 7.00 "

The above are strong plants, from 4-inch pots, not grown in 3-inch and sold for 4-inch.

CHRYSANTHEMUMS: Per 100

Golden Wedding and Good Gracious, 2 1/2-inch, strong plants.....@ \$5.00
Other choice cut flower varieties @ 3.00

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Clean, healthy stock

MERMETS.	BRIDES.	SUNSETS.
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MME. WATTEVILLE.	BON SILENE.	METEOR.
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Strong plants, from 3-inch pots, \$8 per 100; \$75 per 1000.
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Surplus stock; clean, healthy plants, from 2, 2 1/2 and 3-inch pots.

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Fred. Dorner, Fred. Hehl and Victor Pelar-goniums. Samples free to intending purchasers, and the very lowest prices on application.

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MERMETS, BRIDES, BEAUTIES,
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Clean, healthy stock, from 3 1/2-inch pots, \$6.00 per 100; \$45.00 per 1000.

25,000 FIELD-GROWN CARNATIONS, fine, healthy stock. Send for list of varieties and prices.

FERNS—Adiantum cuneatum, 2 1/2-inch pots, \$3.00 per 100; from 4-inch pots, \$6.00 per 100.
Ferns in fine assorted varieties, same price.

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2 1/2-inch pots. Per 100 Per 1000

BRIDE.....	\$2.50	\$22.50
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GONTIER.....	2.50	22.50
SOUPERT.....	2.50	22.50
WHITE LA FRANCE.....	2.75	24.00
SUNSET, PERLE.....	2.80	25.00

And all other standard varieties, 2 1/2, 3 1/2 and 4 1/2-inch pots. Write for prices on what you need.
TERMS CASH WITH ORDER.

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ROSES. Good Stock.

AM. BEAUTY PLANTS, 4-inch.....\$70.00
BRIDESMAIDS, BRIDES, PERLES,
MERMETS, all 3 1/2-inch.....\$45.00

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SURPLUS STOCK CHEAP, consisting of Brides, Mermets, Meteor, Bon, Safrano, Souv. d'un Ami, Niphetos, Beauties and Perles. All first-class stock from 3 and 4-in. pots. Price \$5 and \$7 per 100. Double White Primroses, 3-in. pots, \$6 per 100; Adiantum Cuneatum, \$5 per 100, 2 1/2-in. pots, etc., etc. Large assortment and low prices. Let us hear from you.
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No Special Position Guaranteed.

Discounts, 6 times, 5 per cent; 13 times, 10 per cent;
26 times, 20 per cent; 52 times, 30 per cent.
No reduction made for large space.

The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to those lines ONLY. Please to remember it.

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

Advertisements must reach us by Monday to secure insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

Coming Exhibitions.

- LENOX, Mass., Sept. 4-6. Annual exhibition Lenox Hort. Society. A. H. Wingett, Sec'y.
- BOSTON, Sept. 5-6. Annual exhibition of plants and flowers Mass. Hort. Society.
- CHICAGO, Nov. 3-11. Chrysanthemum show Hort. Society of Chicago. W. C. Egan, Sec'y, 620 Dearborn Ave.
- NEWPORT, R. I., Nov. 6-8. Chrysanthemum show Newport Hort. Society. Alex MacLellan, Sec'y, Ruggles Ave.
- BOSTON, Nov. 6-9. Chrysanthemum show Mass. Hort. Society. Robt. Manning, Sec'y, Horticultural Hall.
- PITTSFIELD, Mass., Nov. 6-9. Chrysanthemum show Berkshire County Gardeners' and Florists' Club. W. M. Edwards, Sec'y, 103 Howard St., Pittsfield.
- ST. LOUIS, Mo., Nov. 6-9. Chrysanthemum show St. Louis Florists' Club. E. Schray, Sec'y, 4101 Pennsylvania Ave.
- INDIANAPOLIS, IND., Nov. 6-10. Chrysanthemum show Society of Indiana Florists. W. G. Bertermann, Sec'y, 37 Massachusetts Ave.
- PHILADELPHIA, PA., Nov. 6-10. Chrysanthemum show Pennsylvania Hort. Society. D. D. L. Farson, Sec'y, Horticultural Hall, Broad St.
- LOUISVILLE, KY., Nov. 6-10. Chrysanthemum show Louisville Florists. H. Nanz, Sec'y, 582 Fourth Ave.
- DENVER, COLO., Nov. 7-10. Chrysanthemum show Denver Florists' Club. Adam Kohankie, Sec'y, L.B. 375, So. Denver, Colo.
- PROVIDENCE, R. I., Nov. 8-10. Chrysanthemum show Rhode Island Hort. Society. C. W. Smith, Sec'y, 61 Westminster St.
- MONTREAL, Nov. 12-14. Chrysanthemum show Montreal Gardeners' and Florists' Club. Fred Bennett, Sec'y, 62 Aylmer St.
- BALTIMORE, Nov. 12-17. Chrysanthemum show Gardeners' Club of Baltimore. Wm. McRoberts, Jr., Sec'y, 304 W. Madison St.
- WORCESTER, MASS., Nov. 13-15. Chrysanthemum show Worcester County Hort. Society. Edw. W. Lincoln, Sec'y.
- TORONTO, ONT., Nov. 13-16. Chrysanthemum show Toronto Gardeners' and Florists' Ass'n. A. H. Ewing, Sec'y, 85 Carlton St.
- SPRINGFIELD, MASS., Nov. —. Chrysanthemum show Hampden County Hort. Society. W. F. Gale, Sec'y, 23 John St.
- MILWAUKEE, WIS., Nov. —. Chrysanthemum show Milwaukee Florists' Club. A. Klokner, Sec'y, 219 Grand Ave.
- HAMILTON, ONT., Nov. —. Chrysanthemum show Hamilton Agric. Society. Walter H. Bruce, Sec'y.

[Secretaries will confer a favor by supplying dates as soon as decided upon. We shall be glad to know of any further shows decided upon and not included in our list, even if exact date is not yet determined.]

WHEN writing our advertisers please use one of your printed business letter heads or enclose your business card.

Primula Chinensis.
Fine, healthy plants, 3 1/2-inch pots, best varieties, \$8.00 per 100; 2 1/2-inch pots, \$4.00 per 100.

Carnations.
Ready September: Grace Wilder, \$6 per 100; Daybreak, \$7 per 100. Strong, healthy plants.
W. A. BOCK, North Cambridge, Mass.

Cycas Leaves. FRESH CUT each 75c.
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FLORAL DESIGNS
The Cut Flower Worker's Friend. Fine book of 160 pages. Send \$3.50 for it, to
J. HORACE McFARLAND, Harrisburg, Pa.

Florists that Handle the BEST STOCK get the Trade.

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LONG'S FLORISTS' PHOTOGRAPHS

are amazing, and shows so thoroughly how differences of opinions exist. In the main, however, all agree as the facts justify, that they are artistic, beautiful, complete, practical, and cheap in price. Can more be expected, asked for, or wanted. Catalogue free.

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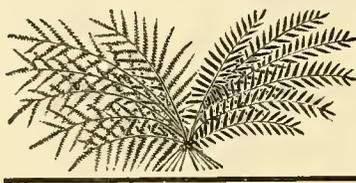
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CUT STRINGS 8 TO 12 FEET LONG, 50 CTS.

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BOUQUET GREEN,

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Fresh and Reliable.
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 Roses, for the summer. Send us a trial order.

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 WHOLESALE GROWERS OF
CUT FLOWERS OF ALL KINDS
 HEADQUARTERS FOR SMILAX.
 Fine crop now ready, per 100 \$10.00;
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 METS,
 BRIDES,
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 ALWAYS ON HAND.
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Cut Flowers.		NEW YORK, Aug. 25.	
Roses	per 1000	\$5.00@10.00	1.00@ 3.00
" Beauty			2.00@12.00
Carnations	per 1000	\$3.00@5.00	.50@ 1.00
Valley		2.00@ 4.00	
Harrisll		4.00@ 6.00	
Auratum		1.50@ 2.00	
Sweet peas, per 100 bunches		.50@1.00	
Sweet peas per 100 bunches		.50@1.00	
Smilax		6.00@ 8.00	
Asparagus		25.00@35.00	
Adiantum		.75@ 1.00	
		BOSTON, Aug. 25.	
Roses, Niphotos, Gontler		1.00@ 3.00	
" Perle, Sunset		1.00@ 3.00	
" Bride, Mermet		2.00@ 6.00	
Carnations		.25@ .75	
Harrisll		6.00@ 8.00	
Lily of the valley		4.00	
Sweet peas		.10	
Asters		.25@ .50	
Gladolus		1.00@ 3.00	
White Japan lilies		2.00	
Adiantum		1.00	
Smilax		12.00@15.00	
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		PHILADELPHIA, Aug. 25	
Roses, small		2.00	
" large teas		3.00@ 4.00	
" Beauties		8.00@15.00	
Carnations		.50@ 1.50	
Valley		10.00@12.00	
Smilax		50.00	
Asparagus		4.00@ 6.00	
Harrisll lilies		.50	
Sweet peas		.25@ .50	
Cornflower		.25@ .50	
Cattleyas		35.00@40.00	
Adiantum		.75@ 1.00	
		CHICAGO, Aug. 25.	
Roses, La France, Meteor		3.00@ 4.00	
" Beauty		8.00@15.00	
" Kaiserl.		3.00@ 4.00	
" General assortment, per 1000		\$.50@ \$1.00	
Carnations, long		.25@ .60	
" fancies		1.50@ 2.00	
Auratum lilies		6.00@ 8.00	
Asters		1.00@ 1.50	
Sweet Peas		.10@ .30	
		ST. LOUIS, Aug. 27.	
Roses, Perles, Niphotos, Wootton		2.00@ 3.00	
" Bride, Mermet, Bridesmaids		2.00@ 3.00	
" Meteors		2.00@ 3.00	
" La France, Albauy, Hoste		2.00@ 3.00	
" Beauty		5.00@15.00	
Sweet peas		.15@ .25	
Carnations, long		.50@ .75	
" short		.50	
Adiantum		1.25	
Hollyhocks, asters		.50	
		BUFFALO, Aug. 27.	
Roses, Beauties		10.00@15.00	
" Mermet, Bride		4.00@ 6.00	
" Gontler, Perles		3.00@ 4.00	
" Meteors		4.00@ 5.00	
Asters		.50@ .75	
Carnations		.75@ 1.00	
Gladolus		1.00@ 3.00	
Valley		3.00	
Adiantum		1.25	
Smilax		15.00@20.00	
Asparagus		50.00	

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 New England Agent for the GREAT ANTIPEST.

WELCH BROS.,
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 NO. 2 BEACON STREET,
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CUT SMILAX.
 15 cents per String.
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 For 1894
IS NOW READY.
 Price \$2.00.
AMERICAN FLORIST CO.

FOR HIGH CLASS SUMMER TRADE.
THE LEADING FAVORITES.
American Beauty,
Meteor,
La France,

And all other desirable roses, grown especially for summer shipping to sea-side and mountain resorts.
BURNS & RAYNOR,
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SPRING, SUMMER,
AUTUMN, WINTER.
 In dull season and busy season.
 All the year round.

Roses, Lily of the Valley
 and all other choice stock
 can be obtained of
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Roses Shipped to all points. Price list on application.
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Careful Shipping to all parts of the country.
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FLORIST,
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 Established 1879. . . .

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The Seed Trade.

AM. SEED TRADE ASSOCIATION.

D. I. BUSHNELL, St. Louis, president; S. E. BRIGGS, Toronto, 1st vice-president; A. L. DON, 114 Chambers street, New York, secretary and treasurer.

THE U. S. Dept. of Agriculture will use fifteen million seed bags the coming year.

VISITED NEW YORK:—Lem Bowen, S. B. Dicks, Henry A. Salzer, E. Schaettel.

PRICES on leading foreign grown flower seeds are not yet fixed.

MOST stocks of imported vegetable seeds are likely to be in fairly good supply.

THE SWEET CORN crop is very uncertain.

TOMATO SEED is not likely to be over plenty.

ONION SEED, according to latest California advices, will be 25 to 30 per cent less than was expected.

SWEET PEA SEED of new crop is now coming forward from the Pacific coast growers.

EXTRA EARLY PEAS are proving of lighter yield than was first expected.

SWEET CORN will not be plenty.

S. F. LEONARD and W. A. Brotherton are making a trip through the east.

EARLY ORDERS for bulk seeds from Texas and other parts of the south are quite satisfactory.

THE INTRODUCTION of bag filling machines is likely to further reduce the present low trade prices on packet seeds in large lots.

MR. E. SCHAETTEL, representing Vilmorin-Andrieux & Co., of Paris, will visit the U. S. this month.

The Tariff Bill.

Paragraph of new tariff bill of interest to seedsmen and florists:

Par. 611. Seeds: Anise, canary, caraway, caradamon, coriander, cotton, croton, cummin, fennel, fenugreek, hemp, hoarhound, mustard, rape, Saint John's bread or bene, sugar beet, mangelwurzel, sorghum or sugar cane for seed, and all flower and grass seeds; bulbs and roots, not edible; all the foregoing not specially provided for in this act free.

Ottawa, Canada.

There is not much news to be had here of interest to the craft, all the blue bloods are either at the coast or in Europe, spending the money they ought to have paid their florist, while the latter have to scratch along the best way they can. This is an awful city for credit; almost every failure in business is caused by it. There are few good flowers to be had, and less sold. Rain two or three times a week spoils most outdoor stuff.

H. Parks has got his new house covered in and planted. A. French has added two houses 60x16 for roses. C. Scrim is putting up a house for retarding azaleas, etc.

Can any of the craft tell us how to kill mushroom spawn in the lawn? On our water works grounds there is a bank full of it, which causes no end of trouble. People go there early in the morning and dig holes to get the buttons, and leave the soil as if a dozen hogs had been rooting.

ZERO.

THE AMERICAN FLORIST and Gardening together to one address for \$1.75. Send orders to the American Florist Co.

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at Atlantic City.

DUTCH BULBS NOW ARRIVING.

Fall Price List now ready.

NEW YORK: 26 Barclay Street. **VAUGHAN'S SEED STORE** 146-148 W. Washington St., CHICAGO.

100,000 PANSIES BROWN'S SUPERB PANSIES
READY NOW FOR PLANTING.

Grower of all the leading variety, the ne plus ultra in pansies. For size and form it seems hardly possible to produce anything more perfect and superfine (most light colors).

By mail, 75c. per 100; Liberal discount will be allowed on large orders.
By express, \$5.00 per 1000. Cash with order.

PETER BROWN, 721 Marietta Avenue, LANCASTER, Pa.
Mention American Florist.

5,000,000 FREESIAS

Buy FIRST HAND. We will deliver Freesia Bulbs, all charges for transportation paid, as follows:

3-8 to 3-4 inch per 1000, \$4.00
1-4 to 5-8 inch per 1000, \$3.00

Liberal discount on larger lots. Send for our price list.

Order NOW your Japan Bulbs, Longiflorum, Auratum, Rubrum, Album, we are Headquarters. We are the ONLY FIRM in the U. S. who guarantee you SOUND BULBS delivered.

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H. H. BERGER & CO.,
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LOUIS DE SMET,

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OFFER AS SPECIALTIES:

Palm, Azalea indica, AZALEA MOLLIS, budded, \$6 to \$10 per 100; Araucaria excelsa (Christmas), Bay Trees, Begonias, Gloxinias. TRADE LIST ON DEMAND. English Correspondence.

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Special and Hardy Water Lilies of all colors. VICTORIA REGIA AND V. RANDI, EURYALE FEROX. Nelumbiums in variety, Hardy Ornamental plants, sub-aquatic plants, etc. etc. Nymphaea Laydekeri rosea (awarded a Medal at World's Fair); most charming of all the HARDY Lilies; \$2.50 each. Other Columbian Novelties see catalogue.

WM. TRICKER & CO., Clifton, N. J.

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OVERVEEN, near Haarlem, HOLLAND.
Bulbs AND Plants

We are now prepared to quote lowest possible prices for next July, August and September delivery.

Illustrated Wholesale Catalogues on application.

HULSEBOSCH BROS.,
ENGLEWOOD, N. J.

ONION SEED.



CROP 1894.

Prices for New Crop made on Application.

COX SEED AND PLANT CO.

411, 413 & 415 Sansome Street, SAN FRANCISCO, CAL.

LILY VALLEY.

From cold storage, finest quality, \$7.00 per 1000

LIL. LONGIFLORUM.

5-7 inches.....\$2.50 per 100; \$20.00 per 1000

BERMUDA FREESIAS.

1 1/4-inch.....\$2.00 per 1000

H. G. FAUST & CO.,

64 & 66 N. Front Street, PHILA., PA.

READY NOW.

		Per 100	Per 1000
Lilium Harrisii,	5-7 inches.....	\$2.50	\$20.00
	7-9 " ".....	5.00	45.00
Roman Hyacinths,	13-15 1/2 cm.....	2.75	25.00
Paper White Grandiflorum.....		1.25	10.00
French grown Freesias, large bulbs.....		.50	5.00
English Milltrack Mushroom Spawns, per lb. 10c; per 100 lbs. \$8.00.			

CHAS. SCHWAKE,
404 E. 34th Street, NEW YORK.

WANTED.

5000 Chrysanthemums (pots) by November 20. . . .

There must be at least 2000 Ivory among them, the balance a general assortment.

SEND YOUR ESTIMATES IN NOW.

All estimates must be in by Nov. 10th.

S. MOUNT & CO.,

Box 68. ST. LOUIS, MO.

PANSIES..

Every Grower Claims the Best.

I am willing to have mine tested alongside of any in the market. Over a thousand florists used them last season, were pleased with them and made money out of them.

Between Sept. 1st and Dec. 1st I will have a MILLION or more plants to sell. They can not be offered in competition with cheap grown seed, but quality considered, are remarkably cheap at the price.

By Mail or Express, prepaid, 75c. per 100; by Express at your expense, \$5.00 per 1000. Liberal discount will be allowed on large orders.

An honest sample of the plants will be mailed you on receipt of ten cents, and terms are absolutely cash in advance.

ALBERT M. HERR, L. B. 496, Lancaster, Pa.

Pansy Star Seed.

The JENNINGS STRAIN of high grade Pansy Seed. New crop now ready. Saved with special care from only the very finest varieties and (warranted) first-class in every respect.

THE JENNINGS XX STRAIN.

The cream of Pansies. Grand colors mixed, pkt., 1500 seed, \$1.00; 1 oz. \$5.00.

The Jennings Strain, finest mixed, pkt. \$1.00 about 2500 seed; 1 oz. \$4.00; 3 ozs \$15.00. No skum milk in this strain. (They are just as good as I can make 'em). To my old patrons I would say they are a big improvement over last season—more variety and finer colors. The best strain for florists either for winter bloom or spring sales; all large flowering.

Black Dr. Faust, finest, pkt., 2500 seed, \$1.00
 Finest Yellow, black eye, 1.00
 Pure White, top best, 1.00
 Victoria, bright red, pkt. 1000 seed, 1.00
 All my own growth of 1894. Half pkts. of any of the above 50c. Please send money orders or registered letter. Cash with order. Address

E. B. JENNINGS, Wholesale Pansy Grower, Lock Box 254. SOUTHPORT, CONN.

Roemer's Superb Prize Pansies.

The finest strain of Pansies in the World. Introducer and Grower of all the leading Novelties.

Catalogue free on application. FRED ROEMER, SEED GROWER, QUEDLINBURG, GERMANY.

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FIRST QUALITY LILY of the VALLEY, BERLIN PIPS, from cold storage.

C. H. JOOSTEN, 3 Coenties Slip, NEW YORK. IMPORTER OF BULBS AND PLANTS.

EXTRA PANSY SEED. MAMMOTH SUNBEAM STRAIN.

A grand collection of giant flowering varieties, very large, of perfect form, and choice colors; carefully selected; better seed plants this year than ever; receive very high praise from my customers; no finer strain offered anywhere; florists should sow of it.

Trade pkt., 500 seeds, 25c; 3 pkts. 60c; 6 pkts. \$1.00. A pkt. of the new Monkey Face pansy with every \$1 order. JOHN F. RUPP, Shiremanstown, Pa.

Pansies Worth Raising. STRONG PLANTS.

Prepaid by mail \$1.00 per 100
 At your expense by express, \$5.00 per 1000
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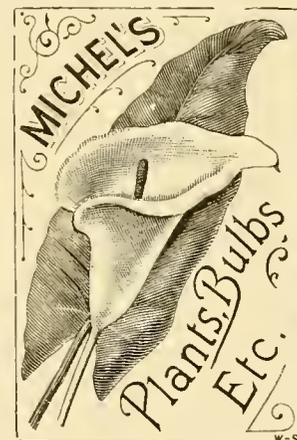
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St. Paul, Minn.

While the brethren were hurrying to Atlantic City or enjoying themselves in the surf, or attending the convention, we of the northwest were sweltering in the continued heat and drouth. A week ago we had promise of copious showers, but they failed to appear, and we plod on in hope of having rain sometime.

Trade continues in the same humdrum manner. There are always some orders, but the principal demand is for funeral work. Flowers are not abundant. Good roses especially are in good demand, but the supply is small. Sweet peas are nearly all gone. Asters are coming in, but are not in any particular demand.

Everyone about town seems to be through with summer planting and waiting for fall trade to begin. More roses than usual have been planted by the leading growers. H. Krinke has a fine house of roses, his first venture in that line. His place, though not large, is one of the best constructed and well kept in the city.

Coal dealers are already putting in bids for another season's supply. Hard coal will be somewhat cheaper than for several years, while soft will remain at about the same figure as last year. In this latitude coal is one of the largest items of expense to the florist, and any reduction in cost per ton means quite a large sum by the end of the season. In a few weeks at the longest night firing will be necessary and a few cold nights the past week almost demanded fire. Some of the craft think they can save expense by delaying the night firing, but the inevitable result, mildewed and stunted stock, has been a powerful lesson.

Roman hyacinths and paper white narcissus have already made their appearance and are planted for Christmas blooming. Bulbs of all kinds will not be planted very extensively this year. Some of the largest growers met with heavy losses last year. One in particular lost over six hundred dollars' worth. That, however, was caused by carelessness of employes. Sales last year of bulbous stock were very light. With the increased plant of roses and carnations this year it is doubtful if bulbous stock will be in any better demand than last. Roman hyacinths are almost indispensable for funeral work and are also in good demand for boxes for the country trade.

Carnations planted outside have improved very much the past two weeks. Where they have received plenty of water they will be as good as the average season. Quite a number of new varieties have been planted and we trust ere long to hear as much said in praise of our carnations as of our roses. We have no carnation specialists here, but we have good soil, good climate and a number of good common sense growers, who use their brains rather than their hands in producing healthy stocks and good blooms.

The annual outing of the Minnesota florists was held at Wildwood Beach the 16th. A goodly number from the Twin Cities was in attendance, and the day passed very pleasantly, with bathing, bowling, baseball, etc. FELIX.

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NEW CARNATIONS.
FERNES.**
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Baltimore.

In the western part of the city is an entire block surrounded by a brick wall ten feet high, over the top of which one catches glimpses of glass roofs, fruit and shade trees, and the upper stories of a great mansion with an enormous shaft or chimney of brick towering far above it. It is the residence of the late Thos. Winans, a man of such originality that when he had a house built for himself his own ideas dominated everything. The most striking instance is the huge brick chimney about six feet square inside, which connects with every room by large pipes and makes a perfect ventilation in every corner of it. The place was originally surrounded by an ornamental iron fence, but the number of copies of Greek and Roman statues scattered about drew a protest from some of the neighbors which resulted in the wall. It would be hard to find a piece of ground of the same size better arranged. The stabling and sheds are along the east wall, and are so well screened by planting as to be almost invisible from the mansion, which is near the west wall. Along the north wall is a range of twelve ridge and furrow houses, each about fifteen by fifty feet. Each house stands on three brick arches running lengthwise of it and with openings between the arches, the ends being closed by the foundation wall of the house. In the center arch the hot water pipes are laid and in the walk over them are gratings to let the heat into the house; by closing these gratings the heat is sent under the benches through the side arches and all bottom or all top heat can be had with the greatest ease. Next to these comes a large lean-to palm house, empty now, but judging from the splendid specimens of seaforthia, cycas and latania grouped about, very full indeed in winter. The west wall is entirely taken up by lean-to graperies, the late ones showing luscious clusters of fruit. The apparent size of the ground is increased greatly by skillful planting, and as one saunters along, considering the numerous specimens of trees and shrubs, it is hard to believe that all is included in the limits of one city block. A charming little shady dell near the center with a lakelet fed by the overflow from a small fish pond is a most attractive feature. Mr. John H. Ryan, the gardener in charge, was full of apologies for the place, but, though not kept in the extreme neatness prevailing in Mr. Winans' lifetime, it is still a very beautiful garden, and in chrysanthemum time will be even more so, judging from the grand lot of pot plants now coming on.

Business in town is still extremely dull, sickness and death creating the chief demand for flowers, and for the time being the florist is in league with the doctor and the undertaker.

The club had quite an interesting meeting Monday night. Among the questions discussed were "Can we hold a flower show in connection with the county fair?" A committee of five was appointed to inquire into the matter, and though too late for 1894 to see if arrangements can be made for 1895.

"Are members pleased with the rule requiring exhibition plants to be single stem?" Quite a debate ensued, some claiming that single stem meant smaller plants and that would not please the public; others that the public taste should be cultivated into an appreciation of high culture. MACK.

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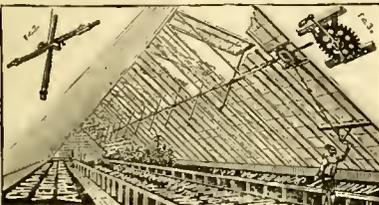
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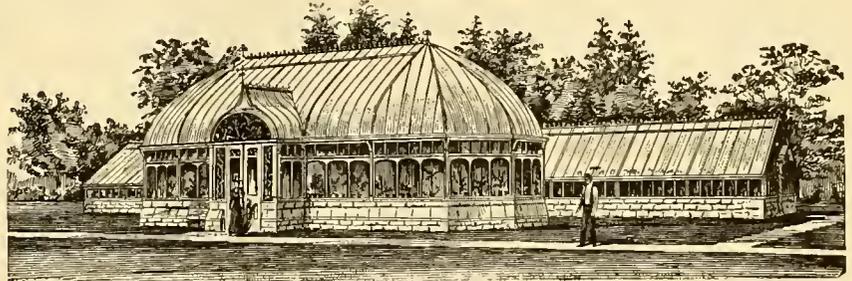
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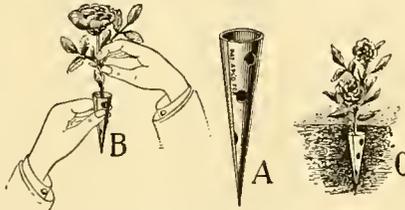


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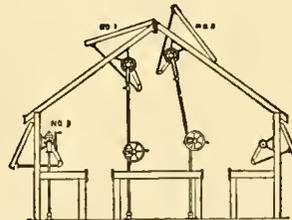
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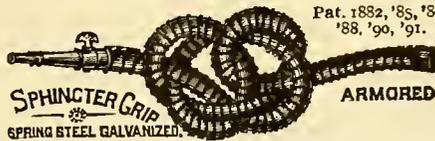


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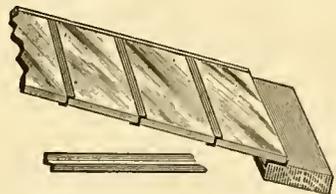
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Cleveland.

The pilgrims returning from the seashore all report having a pleasant and profitable time. There were not many representatives from our city, there being only six all told. But we promise to do better next year, as the convention meets in our neighbor city.—Pittsburg.

The carpet bedding in Monumental Square is looking as good as could be expected under the circumstances, except the vases which adorn (?) the walks, they are an eyesore, and the G. A. R. designs, instead of being red, white, and blue, are red, white, and green, as the lobelia which was used for the latter color is out of bloom, and is one mass of foliage. Is there no better plant to use to represent one of our national colors? I thought I had found the very thing last year in Washington Park, Chicago; the design was a flag and the blue "field" was that desirable color we have been looking for, but on closer examination it was found to consist of small broken stones which had been dyed.

Business is beginning slowly to pick up. There is considerable funeral work at times, and the orders for designs from outlying towns within a radius of 100 miles is considerable. White flowers being scarce at this time of year the average florist in small towns would rather send to a large city to have their work made up where there are greater facilities at all times of the year for turning out good work, than to stint his designs when flowers are scarce, and not give satisfaction to his customers. L. F. D.

Pittsfield, Mass.

A regular meeting of the Berkshire County Gardeners' and Florists' Club took place August 9 and was very largely attended. It proved to be a regular bug and insects meeting; the borers especially had a pretty hard time of it. Maples, mountain ash, larches and other trees are dying off here, the result of the attacks of these borers.

A hearty vote of thanks was accorded the Lenox Horticultural Society for their generous entertainment on July 21.

Those interested desiring copy of our annual report and premium list for the coming year may receive copy now on application. W. M. EDWARDS, Sec'y.

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10 per cent. off for cash with order. Special discount on large orders. We carry a large stock on hand of good strong pots.

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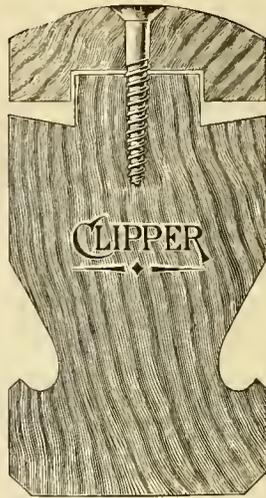
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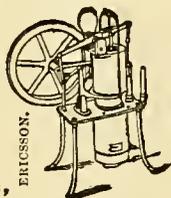
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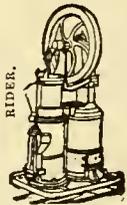
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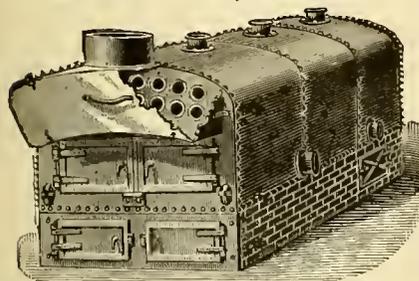
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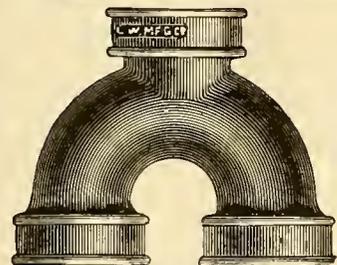
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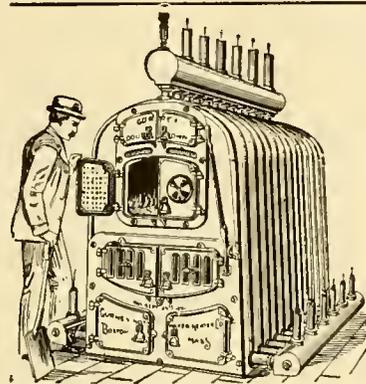
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Do you want a list of trade organizations, both national and local, with names and addresses of principal officers, time and place of meetings and other information? You will find such a list in our trade directory and reference book for 1894. Price \$2.00.

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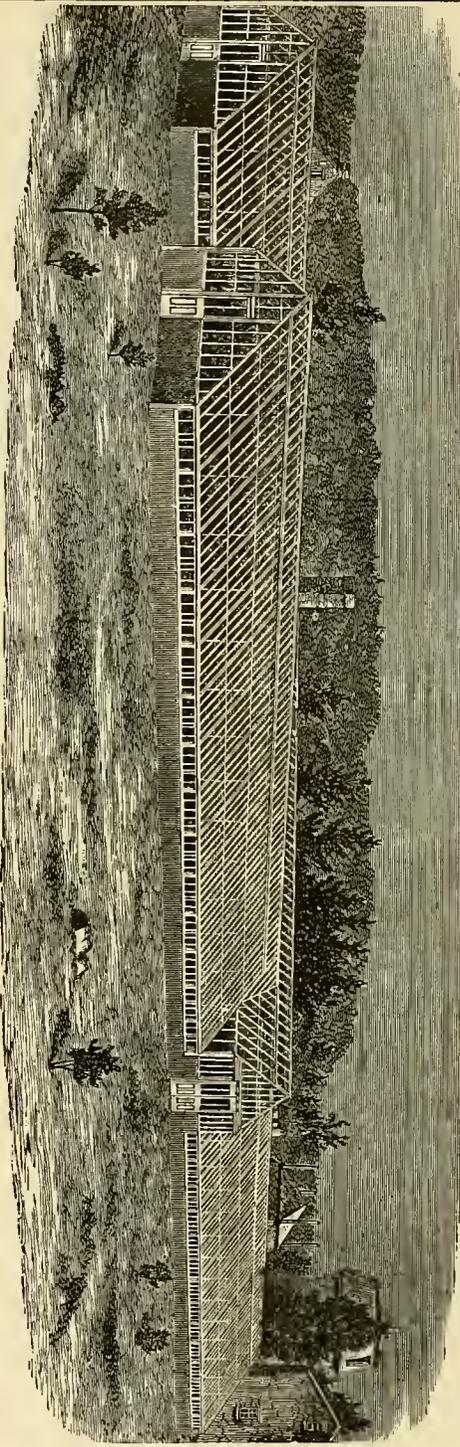
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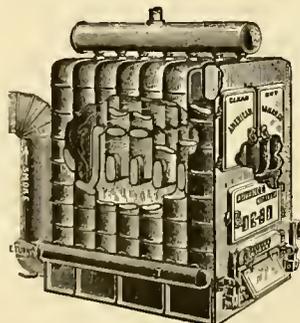


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for Rose Houses, Conservatories, etc., etc.

GLASS. ROCK BOTTOM PRICES. Send for Estimate. Satisfaction Guaranteed.
REED GLASS CO.,
65 Warren St., and 46, 48 & 50 College Place,
New York City.

THE AMERICAN FLORIST



America is "the Prow of the Vessel; there may be more comfort Amidships, but we are the first to touch Unknown Seas."

Vol. X.

CHICAGO AND NEW YORK, SEPTEMBER 8, 1894.

No. 327

THE AMERICAN FLORIST

Copyright 1894, by American Florist Company.
Entered as Second-Class Mail Matter.

PUBLISHED EVERY SATURDAY BY

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322 Dearborn Street, Chicago.

Subscription, \$1.00 a year. To Europe, \$2.00.

Address all communications to

AMERICAN FLORIST COMPANY,

P. O. Drawer 164, CHICAGO.

Eastern Office: 67 Bromfield St., Boston.

This paper is a member of the Associated Trade Press and the Chicago Trade Press Association.

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COATESVILLE, PA.—James Brown Jr. has completed his range of glass, which consists of three houses 16x100 with packing shed 52x12.

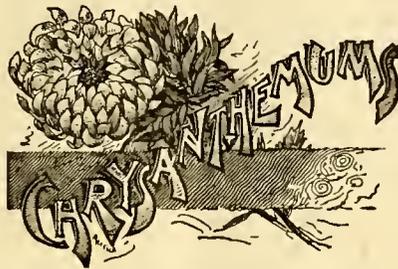
LANSING, MICH.—R. H. Mann, of the firm of R. Mann & Son, was married August 23, and has gone to Honolulu where he will reside.

WAUKEGAN, ILL.—F. R. Clarke has bought a place here, and will go into the business as grower for the Chicago market. He will add to his present glass area.

PADUCAH, KY.—C. L. Brunson & Co. report a fair trade for last year, and that prospects are encouraging for this winter's business. They have just completed a house 125 feet long for chrysanthemums.

TAYLORVILLE, ILL.—Fred Cook & Sons have purchased the Taylorville Greenhouses, owned by W. H. Kirkwood and M. B. Leach. Cook & Sons now have 4,000 feet of glass, and expect soon to add another house, and put new boilers in the original plant. The establishment includes eight acres of land, which will be used for fruit and greenhouse supplies.

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



Suggestions for a Chrysanthemum Show.

[Read before the Toronto Gardeners' and Florists' Association by A. H. Ewing.]

When I offered to write a paper on this subject I thought I was going to have a soft thing of it; but the further I got into the matter the more I saw that it was a bigger thing than it looked, and that it required a lot of thinking to get ideas straightened out into a comprehensible shape. I am afraid you may think this paper too long before I get through, but I assure you that I have endeavored to boil down the matter as much as possible.

First I wish the members to understand that I do not claim all the following suggestions as being original. They are principally taken from the writings of those who have had experience in running shows on the other side, which have been published from time to time in the horticultural papers, and from a discussion at the last meeting of the S. A. F. at St. Louis on horticultural exhibitions. I have picked out from them only what I thought would be beneficial for Toronto shows, blending them with what I have learned about the matter from my own experience.

To begin with, I think it is of the greatest importance that we should endeavor to make our shows more artistic, I mean in the arrangement of exhibits and in the decoration of the hall. As we have them now they are simply a lot of plants and cut flowers stood in rows like regiments of soldiers, and we only show the skill of the gardener in raising fine plants and big blooms. A small group 15x6 feet and a mantel are the only things in which the public is shown what can be done in the way of floricultural decorating. This seems to me to be all wrong, and I am sure the public will think so too if it is not remedied soon. Our association contains all kinds of gardeners and florists, and the annual show of the association should give the public an exhibition of what can be done when a lot of the finest plants and blooms are brought together. There is no doubt but that the association contains members with plenty of good taste in decorating for artistic effect, and there should be some way of bringing it to the front at our shows. I take it that these shows are not held only for the purpose of making money

for the association, nor for any of the individual members thereof, but also for the purpose of educating the public to a love for floriculture in all its branches, thereby advancing the profession and indirectly benefiting all engaged in it. Of course we want to make money enough every year to enable us to pay decent prizes and expenses, and if there is some over after that is done it gives us courage and the means to do more next year; but if something is not done to give more artistic effect to the whole show the public will soon say "Oh! it is the same old chestnut," and will get tired of it.

It is, in my opinion (and I have not taken this from anybody else), a most important thing to get a first-class superintendent in order to carry out the foregoing suggestion. I used to think that any active man with a voice like a fog horn and the schedule in his hand would do, but experience has taught me that these are not the only qualifications necessary. I think that the association should hang up an advertisement in the meeting room something like the following:

Wanted, for the chrysanthemum show of 1894, a competent man to act as superintendent. Must have experience and taste in decorating large halls; must be civil and obliging but must take no back chat from exhibitors; must be a hustler from the word go and able to do two days work before 12 o'clock noon on the first day of the show; must be able to lift palms in tubs weighing 500 pounds or more, and carry from two to four specimen plants at once without injury, or at least to tell the other fellows how to do it, and must be able to boss three or four helpers who think they know more than he does. \$2.00 per day will be paid to a suitable man. Apply to the chairman of the show committee, who will examine candidates as to their qualifications. Candidates must expect to be held up to general execration after the show is over.

The chrysanthemum show committee should, I think, be composed of not more than three, and these three should be carefully chosen by the executive committee. They should be the very best men of the "get there" breed that can be picked from the association, and must have time, or be able to make time, and be willing to make some little sacrifice in order to do the work. The executive committee is all very well to get up the prize list, and I think the recommendation in its report to-night is a move in the right direction; but to do the work of the show it seems to me that a large committee is too unwieldy and can't move quickly enough.

Judicious advertising is one of the most important points in the success of a show, and the member of the committee who has this branch in charge should have had some previous experience in

that line. I have an impression that our former shows have not been sufficiently advertised either in the papers or by posters or hand bills. A good many of the American clubs publish a souvenir and distribute a large number of them before the show, but this is a little expensive, and I think it is doubtful whether the returns are large enough to make that kind of advertising advisable.

Newspapers can do more for the success or failure of any undertaking in this country than any one thing, and their good will should be worked for by every possible means. Now newspapers are not run just for the fun of the thing; they are business undertakings, and the proprietors are in it to make money; every inch of their space represents so much value to them. Therefore, I do not think we should expect too much of them unless we are as liberal with them as they are willing to be with us. Most of our Toronto papers have in the past seemed to be quite willing to be liberal with us, and I quite believe that if we are more liberal with them than we have been, both with our advertising and complimentary tickets, they will do still better with us in the future. Depend upon it, we can't get along without the thorough good will of the press. The following is an extract from a speech made by Mr. E. A. Seidewitz of Baltimore, at the St. Louis convention.

I consider that liberal advertising is the main requisite of a successful flower show. Here, gentlemen, let me impress upon you one thing, and that is, never expect to get anything for nothing. It will not do to go to a newspaper and simply say: "We will give you news when you give us a description of our shows." We must take into consideration that space in a newspaper counts for so much money. We must not go to them and say: "You send your reporter down, we will give you plenty of news." That is wrong. In Baltimore we go to a newspaper proprietor—Mr. Abell of the *Sun*, for instance—and say to him: "We wish to invest so much money in advertising." Well and good. Our offer is accepted, and the space to which we are entitled by the amount paid is given to us. We go to all the papers alike—it does not matter how small the paper, we believe we must go to all of them. When the show opens they send around their reporters; and I have seen those reporters work there the whole day, with the assistance of the committeemen, in preparing correct and creditable descriptions of the show. I may say that to the newspapers of Baltimore we owe our success financially; and I would like to impress upon you, gentlemen, that the newspaper in this country is indispensable in making the flower shows of America successful.

Advertising by posters is another method that can not be neglected without loss; there should be a large, conspicuous and attractive bill on every boarding in the city. If it pays the theaters to do so much of it it will pay us. Shop cards also do good and their cost is comparatively small. Bills on the street cars during the show I think do a lot of good also and pay well. Giving invitations to prominent people (as was done last year) and complimentary tickets, if done with discretion, may be almost called a method of advertising, and does more good than those who do not see how things work may think. It puts the recipients of them in a good mind and predisposes them to favor the show, making them advertising mediums at once.

There is another point on which I have changed my mind lately. I used not to believe in formal openings. Of course on these occasions there is a lot of humbug said and done, but if the lieutenant governor or the mayor does the business the papers are bound to give an account of it next day, and the show gets a lot of advertising; besides, perhaps, it gives a fashionable tone to the show which it otherwise would not get. Can we afford to lose this?

As regards the price of admission, I don't see that it can be changed for the better. 25 cents catches every one, and I think we should let well alone on that point. The Chicago club at their 1892 show tried 50 cents, and got as many people as the year before at 25 cents. That was very nice for the Chicago club, but I am sure that if we tried the same thing here we should get left. But our gate receipts certainly ought to be a great deal larger than they are. In Indianapolis, with a population of 130,000, the gross receipts for the show in '92 were \$3,400, with the admission 25 cents in the day time and 50 cents at night. Toronto, with a population of over 200,000, could only scratch up to about \$900 at last year's show, which was the best that has been held. So that it is evident that we have a big thing to work on yet, and I believe that with proper management our show might be made the great fashionable event of the season, and if this can be done there is money in it not only for the association but for all in the profession.

The subject is one of vital importance to the association; we might as well be dead as half dead; but when it is in our power to make this show a big thing and thereby benefit ourselves one and all, why let us get up and make it the liveliest kind of a show on record. I hope the members will discuss these few suggestions, especially the possibility of making the show more artistic as a whole.

Since writing the above there has been a good deal said about judges. Well! we as everybody knows favor the one judge plan, and have found it work very well and with less expense, less trouble, less kicking. The main points are to get thoroughly good and expert judges of plants and cut flowers outside our own city, and change every year.

Judging New Chrysanthemums.

ED. AM. FLORIST:—Your esteemed correspondent Mr. T. D. Hatfield brings up a very important matter relative to judging chrysanthemums. It is in line with my own thought upon the subject, and hence would like to see efforts made to have a representative exhibit of all the seedling chrysanthemums made at some intermediate city where the owners of seedlings might send them for judgment. The plan outlined at Atlantic City by the National Chrysanthemum Society does not meet the requirements of the case; it proposes to appoint three experts in or at the different centers to pass upon those in the neighborhood or adjacent to the city or center where the committee hold forth. A far better plan would be to have a city situated like Buffalo or Pittsburgh where all the seedlings could be got together, at one or more stated times, and there have them judged comparatively and on their merits. Something of this kind is so obviously necessary that it commends itself at once to the intelligence of those interested.

Three or five judges might be selected, and let these judges work on the point system, the highest number of points noted to constitute an award of the first class, a given number of votes to constitute an award of merit of the second class.

Complaint is made that examinations and decisions are made now on too limited a line, in other words, that only varieties with stiff stems and monstrous flowers are considered. This could easily be remedied by making classes and defining the attributes of varieties for entry in the different classes.

It does not necessarily follow that this competitive test shall be held in connection with an exhibition or that a public show shall be had, but it would be obviously to the advantage of any club to have in connection with their own exhibit the exhibit of seedlings under the supervision of the National Chrysanthemum Society. They certainly would prove an interesting feature of any exhibition and be a winning card in the way of a good adv. for the local show.

Complaint is made on every hand of the enormous number of new varieties launched upon the market every year, varieties inferior to existing sorts, and which should never be sent out. The growers give as a pretext unpropitious dates of shows, judges all one sided in passing on varieties, examining everything presented from a narrow commercial view. Judges must be selected who hold the confidence and esteem of grower and buyer alike; caution will have to be exercised here, but there need be no trouble in getting judges who shall be eminently satisfactory to all concerned. If we as growers and raisers of new varieties ever expect to command confidence and enjoy the full fruition of our labors we must earnestly support a plan approximating at least the plan outlined by Mr. Hatfield. European growers write that they would like to buy in quantity of our new varieties, but they are at a loss to know which are the best out of the one hundred or more varieties annually offered with such glowing descriptions.

A good thorough test of this plan would not be so very expensive or difficult to arrange, and the writer firmly believes great good would come out of it. If nothing else come out of it it might enable our genial and versatile friend Rawson to point out to the satisfaction of the judges the difference(?) between Princess of Chrysanthemums and Good Gracious.

Undoubtedly there will be more new chrysanthemums this year claiming untold merit than were ever presented before, and why not arrange now to examine the claimants and as the horsemen say—"See if she can trot." This plan should be especially gratifying and welcome to the owners of new varieties of merit, for an award under the circumstances would mean an endorsement of a new variety that would have great pecuniary considerations accompanying it.

E. G. HILL.



TO PREVENT RUST.—Dissolve one pound of sulphate of copper in two quarts of ammonia in a 2-gallon jar. When dissolved add another quart of ammonia and stir well. [The liquid can be kept in this form for some time and used as needed.] Add a pint of this solution to a barrel of water and syringe the plants with a force-pump every two weeks. And don't let the time for spraying pass without attending to the operation.

Carnation Notes.

If you have any plants in the field yet get them in as quickly as possible, unless they are quite small plants, when it may be policy to leave them in the field until there is danger of a hard frost. A good hard frost is no serious injury to carnation plants that are intended for propagation and that will be grown in a tem-



THE GROUP PHOTOGRAPH TAKEN AT CARISBROOKE INN, ATLANTIC CITY.

perature of 40° to 45°; but it is quite an injury to plants that are to be grown in a temperature of 50° to 60° for cut flowers.

After the plants are started nicely, if the shading has not been washed off by rains, rather than let the plants suffer for want of sunshine wash it off yourself. About the quickest and cheapest way I have found is to take an ordinary scrubbing brush with a handle and a boy at the end of the handle. If it happens to be very hot for a week or two yet as it often is in September it is best not to take all the shading off at once, but clean every other row, that is leaving one row with shading on and one clean. As soon as you safely can clean the entire house, for the two best friends the carnation has are sunshine and air.

As a rule while you are starting the carnations you are also starting a fine crop of weeds. If you do not stake as you plant do it as soon after as you can and you can then easily keep them clean, which is a very essential feature in carnation culture. Everything possible should be done to assist root development, and there is quite a perceptible difference between beds that have the soil kept stirred occasionally and those that have not, the difference being decidedly in favor of stirring the soil. These may seem like unimportant little items, but it is just a number of such little things carefully looked after that make successful carnation growing. In stirring the soil do not cut into it deep enough to disturb the roots, and do not let some careless fellow get among your plants who will break them up and do more harm than good.

It is a good plan to watch your employes, and if you find you have a careless one on the place better get rid of him at once; such men may have a place to fill on this earth but it is not in a greenhouse full of carnations. I think I have said before that starting right is the key to future success, and to start right and keep right you must have employes who will carry out your instructions intelligently and carefully.

Keep a sharp look out for green fly and

do not let them get a start on you; a good plan is to close your houses about 6 o'clock p. m. and give them a good smoking once a week. Leave the smoke until about 8 p. m. and then open up again for the night.

ALBERT M. HERR.

Carnations in the Field on Long Island.

FLATBUSH.

With the peculiar retentive clay soil of Flatbush a dry season is more conducive to good results with field grown carnations than is a wet one. Hence it is that although this has been undoubtedly the driest summer for forty years and the roads are knee deep in dry dust and the greenhouses effectually shaded with the same material, carnations as a rule are in excellent condition and sympathize not with the flocks of cackling geese and unhappy looking ducks which troop hither and thither all over the town searching disconsolately for a puddle in which to immerse their dust coated backs.

Lizzie McGowan seems to be the only prominent variety which will not take to characteristic Flatbush soil. In only one place (Suydam's) has it done anything this season. Here the plants are as fine as ever were seen anywhere. With all the other growers it has been a pronounced failure. This is accounted for by the quality of the soil on the Suydam place, which is a rich friable loam and destitute of the clay which abounds all around it. This is the only establishment where any planting has been done in the houses yet, other growers waiting anxiously for rain to loosen the hard packed soil so that the plants can be lifted without tearing the roots. Suydam is an example of good luck and industry combined, a combination hard to beat. They say that he gets up in the morning to see what time the sun rises and growls because night comes so soon.

None of the carnation growers are entirely free from rust, which seems to exist to a trifling extent on all varieties. Two sorts, however, are loaded with it, Silver Spray and Jacqueminot. This is much to be regretted in the case of the

latter variety, which has otherwise made a splendid growth. Albertini has done well everywhere, and Puritan is fully equal to last year. Baron de Rothschild (Bouton d'Or) looks good with its reintroducers, Dailedouze Bros., but at Messeburg's has made no growth at all. William Scott is fully up to expectations with everyone. Tidal Wave, The Stuart, Portia, Ferdinand Mangold and Annie Pixley have all done splendidly. Uncle John has made a big growth but shows traces of bacterial disease in some localities. Daybreak and Hinze's White are somewhat stunted in some lots, but in general are all right. Grace Wilder is simply immense with Bennett and Messeburg, who plainly have good cause to still stand by this old favorite.

QUEENS.

At C. W. Ward's Cottage Garden establishment there are five or six acres of carnations and the houses are being filled this week. Michigan, Wm. Scott, Albertini, E. A. Wood, Ferd. Mangold, Thos. Cartledge, Portia and Uncle John have all stood the drouth to perfection and are in excellent condition with little if any difference in size from last year, with the exception of Uncle John, which grew poorly last year but which is first-class in every respect this season.

There has been trouble with red spider on some varieties, Daybreak suffering severely from this pest. Helen Keller up to two weeks ago, Mr. Ward states, looked first rate but just now it seems to be going backward. It is also badly affected with red spider. The Stuart is undersize as compared with last year but as a rule is in pretty good shape. Sweetbrier has done just about the same as The Stuart.

Storm King has suffered quite severely from the dry weather, making only a small straggly growth, but being a late grower is expected to catch up somewhat in the houses. Buttercup stood only fairly well, also Edna Craig and Dr. Smart, and these varieties are all undersized. As to McGowan it has done splendidly and better plants would be

hard to find. Ada Byron has done pretty well, considerably better than Sweetbrier. The three novelties, Bridesmaid, Meteor and La France, have all made splendid growth. Mr. Ward has five new houses in process of erection, all with short side to the south.

At Chas. H. Allen's the carnations are all housed. Uncle John made the best growth of all the varieties outside. Albertini, The Stuart and Wm. Scott all show the effects of the drouth badly, being as a rule scarcely more than one third size. Scott is nothing to what it ought to be and has been in former seasons. McGowan while small is of excellent color and appears much more healthy and vigorous than it did last year. Mr. Allen is growing for pot plants a lot of Winter Cheer, an English variety, scarlet, which is in habit and constitution the ideal plant for this purpose.



Mme. Caroline Testout for Outdoor Planting.

It will be good news to not a few ardent admirers of the Testout rose to learn that it is not only a profitable hothouse rose, but may be grown in the open air with success. From experiments which I have made with it I think it may be claimed to be perfectly hardy, and if such claim prove well founded a very valuable feature will be added to its already numerous strong points. This claim of hardiness it will be understood is for this locality only; but as our winters are severe enough to please an Esquiman it is to be presumed that it will prove hardy anywhere in this latitude. I will give in detail my experience with it as an outdoor bloomer.

Last year, being desirous of replanting my Testout bed with young stock, I was in somewhat of a quandary as to what to do with my old plants. The rose being a new variety and plants bringing a good figure, I disliked to discard them. Finally I hit upon the idea of planting them out of doors. The venture did not promise much in the way of success, but as I had the plants and ground space decided to try it any way, let the issue be what it might.

Being at the height of an exceedingly dry summer the ground was of course in the very worst natural condition for planting. There had been no rainfall for over five weeks. These things considered we had to use unusual caution in transplanting. A trench five inches deep was dug, to which the plants were taken singly, having been cut from the bed in squares and carried on spades to insure as much earth around them as possible. Being placed in the trench, water from the garden hose was turned on them and kept running during the entire process of transplanting, which occupied some little time. The plants and trench were thus completely saturated. When the plants were all in place the trench was filled with dry soil. This process was followed by mulching the entire bed with light strawy manure. Another heavy watering was

given, which ended the experiment for the time.

Early in March the plants were pruned to within six inches of the ground. They broke strong early in the month, and made a growth of some three or four inches, when a sudden freeze came and killed them down to the ground. In April they began to push stronger than before, and we were cutting very nice roses by May 25. They were in the very height of beauty from the 5th to the 20th of June. Some days we cut as many as 200 roses, most of which were of perfect form and exquisite in color. There were about five hundred plants in this bed, and of this large number not a single one was winter-killed.

I am satisfied that we can get as good roses outside as under glass provided the same attention were given. The bloom we got was quite as good and profuse as when the same plants were grown in the house, with the single exception that the stems were shorter. But this can be remedied I feel sure, provided the plants are watered and syringed as faithfully every day as when under glass culture. Visitors at my place constantly inquire whether the plants are watered from the hydrant directly, and express wonder that water so cold does not hurt them. The temperature of our city water as it comes from the mains is about 56° in the summer and the plants thrive under it famously.

I think I am safe in saying that this bed of Testouts is the best and cheapest advertisement I ever had for a home retail trade. Hundreds of people came to see it, many of whom left orders for from one to a dozen plants. I unreservedly advise my florist friends not to throw away any Testout plants, especially if they have a retail trade they care to retain and develop. Even though they do not get the desired long stem the roses will prove invaluable in making up designs.

We treated a few of the K. A. Victorias in the same manner with a like result. These two roses make a great team for outdoor planting and will, I think, in the near future be widely cultivated. We also experimented with the Wootton, securing as satisfactory an outcome. If I were to be confined to three roses for outdoor planting I would select Testout, Victoria and Wootton. W. W. COLBS.

Miscellaneous Seasonable Hints.

The old pelargoniums that were cut down a month ago will now have made young breaks of half an inch or so. Shake every particle of earth from the roots and repot firmly in a smaller sized pot than they were previously growing in. A good slice can be taken off the ends of the roots. They will soon make young feeding roots, and these plants could, if you had the room, be made into grand specimens 5 or 6 feet across. Perhaps you don't want to grow such large plants, but they will give you hundreds of cuttings in a month or two, which will make useful market plants by next May or June. The three pelargoniums I found to sell the best last season were Mr. R. Sandiford, white; Dr. Masters, crimson, and Mme. Thibaut, a beautiful soft pink.

Never neglect to string up your smilax; much time and money is wasted by neglecting this operation at the right time, and don't use white string; whether it be common black thread, shoemaker's thread or silkline it matters little so long as it is dark in color and hasn't to be removed when using the smilax. Pulling out the conspicuous white string is not only a

tedious job, and occurs most times when you are in a hurry, but it breaks up the smilax and destroys much of the gracefulness when used for decorations.

Don't forget when you have your carnation beds planted to plant along the edge a few plants of the double sweet alyssum and myosotis. The former little plant is most useful and will help you out many times when the demand for white flowers is brisk. I don't know the specific name of the myosotis that is grown in this locality, but it is a most useful plant, commencing to flower at Christmas and flowering profusely until June. I never could see that these plants, say 2 feet apart along a carnation bench, did the slightest harm to the carnations. They are therefore clear profit.

If I had written any notes a week or two weeks ago I should have recommended you to put in several batches of cuttings. It is not late yet. Every healthy geranium cutting you can get hold of should be taken off at once. Potting them firmly in 2 or 2½-inch pots is just as good as the cutting bed, and they make sturdier plants. If you cut the plants down for the cuttings early in September and we don't get a killing frost early in October you will get another fine batch of cuttings, or the old plants will be in excellent order for lifting.

If you don't have any large coleus in pots for stock, then put in a good batch of the leading varieties; they will make strong young plants before cold weather comes. The middle of the month is a good time to put in the cuttings of many common but useful plants, among them the ivy geraniums, vincas and Abutilon vexillarium. There are a few plants that you can multiply one hundred fold during the winter and spring, and therefore but a few dozen cuttings will be sufficient. I allude to such weeds as lophospermum, senecio (German ivy), Pilogyne suavis, etc. There are other plants of which it is more profitable to lift a few old plants and begin to propagate when you have more room. These are Salvia splendens, pyrethrum, the common white feverfew, lobelias, ageratums, achryranthes and others, and there are a few plants of which you should have a few in pots all summer because they lift badly; heliotrope and lantana are among these.

As this has been since early June one of the driest summers in my recollection, and where no irrigation has been resorted to when we do get the welcome rain, all our soft wooded plants will take a jump and be naturally soft and particularly liable to injury by a slight frost if we should get one at the end of the month. Don't leave all your tender plants out to be rushed in at the last moment. You will have callas, poinsettias, azaleas, stevias and other things plunged in frames. The poinsettias and callas will do better under glass now. The azaleas and stevias can be left out till the end of the month.

Don't forget to water once a week at least the boxes of Romans and other bulbs which you have outside covered with a few inches of soil. They must be kept moist or no good root growth will go on, and the Harrisii lilies that are potted and mulched outside must not be allowed to get very dry. At this moment the rain is falling in good style, and never did it seem to "fall from heaven upon the earth beneath" with such blessings as it does this morning. WM. SCOTT.

YOU CAN'T AFFORD to do business without a copy of our trade directory and reference book.



THE GROUP PHOTOGRAPH TAKEN ON THE PIER AT ATLANTIC CITY AFTER THE SHOOTING MATCH.

Fall Exhibition Mass. Hort. Society.

The Massachusetts Horticultural Society opened its annual exhibition of plants and flowers on Wednesday, Sept. 5.

In the upper hall were the grand groups of stove plants and ferns which have always been a leading feature of this exhibition. While not as extensive as on some former occasions these displays were exceedingly good. The fancy caladiums from N. T. Kidder have never been excelled here; the ferns from the same exhibitor were superb, and his whole collection of specimen foliage plants was without a flaw. In Dr. C. G. Weld's group the crotons and dracaenas were especially noticeable for their perfection of form and brilliancy of coloring.

John L. Gardner's group of stove plants was also most creditable. In Mr. Gardner's exhibit of orchids were some well bloomed plants of *Miltonia vexillaria*, and among those shown by Benj. Grey was a very fine form of *Dendrobium formosum*.

Tuberous begonias, both plants and cut flowers, were shown in more than usual profusion, and some very good plants were staged by Dr. Weld, the Bussey Institution and E. S. Converse; a fine lot of blooms sent by the Oasis Nursery Company unfortunately arrived in a somewhat battered condition.

David Allan showed a nice little group of jardiniere plants, and the Harvard Botanic Garden sent a very interesting collection of sarracenias, among them being several lovely hybrids.

The display of cannas was by far the best ever seen here. R. & J. Farquhar, Robert Christie, David Fisher, J. Cowles and others showed extensive collections, embracing all the leading sorts, but the whole list of cannas must stand at a respectful distance in the presence of Mr. Cowles' seedling, Mr. Fairman Rogers; a

plant in pot and several vases of this peerless variety were shown.

The aquatics, of which there were five tanks, were a leading attraction of the exhibition and were constantly surrounded by an admiring throng. They came from Daniel D. Lee, John Simpkins, L. W. Goodell and P. Bissett, the latter sending all the way from Washington enormous blooms of a deep rose colored nymphæa, a cross between *dentata* and *Sturtevanti*. One of the most beautiful nymphæas shown was the new *Columbiana*, which was in the collections of John Simpkins and L. W. Goodell. It is a glorious color.

In the lower hall the show of cut flowers was superlatively good, something unexpected in view of the long spell of dry weather.

The dahlias were very far in advance of any former display. Such perfection in form, size and color has never been seen here, and it came in the form of a big surprise. H. F. Burt's collection of named varieties was very extensive, and they were superb in every way, as were also those from L. W. Snow, W. C. Winter, W. W. Rawson and John Parker.

Asters, although somewhat past their best season, were excellent. Nasturtiums, marigolds, pinks, zinnias and other garden flowers were shown in profusion. A great advance was noted in color and form of zinnia flowers, the tiny lilliput varieties being especially admired.

Wild flowers from Mrs. P. D. Richards, the Misses Doran, G. H. Grinnell and L. H. Parker; and hardy perennials from Rea Brothers were as usual a great attraction, and enthusiasts with note books in hand jostled each other here continually.

Mr. J. W. Clarke showed a large collection of hothouse grapes, among which were some well finished Alicante and Golden Hamburg.

An interesting and interested visitor

was the always welcome Louis Menand, from Albany, accompanied by his daughter. Other visitors were Alexander McClellan, J. Cowles and Robert Christie, from Newport, and George McWilliam, from Whitinsville.

An interesting little diversion occurred when Elijah Wood made his appearance in the hall. He was captured and hustled into the library room, where he found a party of his society friends, headed by Mrs. E. M. Gill, who were there to present him with a nice little collection of silver table ware. The presentation remarks by Mr. Jos. H. Woodford were in the right strain, and little Woodie's reply was equally good. His only regret was that his newly acquired better half was not also there to share his pleasure.

The list of premiums awarded at the exhibition will appear in next week's issue.

Lenox, Mass., Horticultural Society.

The Lenox Horticultural Society has every reason to be proud of its first exhibition. A more favorable or attractive spot for such an event than the acacia and maple shaded lawn on which the big tent was spread it would be hard to find, and certainly no finer compliment could be paid to the aggregation of expert growers which makes Lenox horticulturally famous than the stream of aristocratic visitors whose stylish equipages drew up in quick succession to the entrance. The elite of the land were there, and they were enthusiastically appreciative.

The arrangement of the groups of plants upon the grass was admirable. The main tent, one hundred feet long and fifty wide, was filled to the last available foot of space, and an annex tent had to be devoted to the display of fruit and vegetables.

A. H. Wingett and P. J. Donahue were the winners of the two first premiums for group of stove and greenhouse plants. The first prize, which was awarded to Mr. Wingett, was a silver cup offered by Thos. W. Weathered's Sons. Noticeable in this collection were the anthuriums and specimen ferns. Mr. Donahue's Pandanus Veitchii, ficuses and palms were very fine. The prizes for twelve stove plants went to A. P. Meredith, first, and J. F. Huss, second. Mr. Meredith's seedling anthuriums, crotons and Adiantum Farleyense were excellent, and his group of ferns, which took first prize in their class, would be hard to beat, all of them measuring from four to six feet across. He was also awarded first for specimen fern, six nepenthes and twenty-five plants of seedling gloxinias, Mr. Huss following second in the latter class. Mr. Huss was first with table decoration of plants, twenty-five tuberous begonias, collection of asters, lilies, cannas, gladioluses, pansies, annuals and herbaceous perennials, a fair amount of glory for one occasion.

Mr. Wingett staged the only group in the class of flowering and ornamental plants, and it well merited the first premium which was awarded to it. Double zinnias were shown by A. Hans, J. F. Huss and C. H. Russell, those belonging to Mr. Hans being remarkably fine. Other exhibitors who received honors were E. J. Norman, Martin Finaghty and W. M. Edwards.

There were some very interesting and creditable exhibits of native plants, those shown by Miss Dana's school children and Master Thos. Campbell, a gardener's son twelve years of age, being especially good. J. F. Huss' group of garden annuals was superb, the salpiglossis particularly attracting attention. From Wm. M. Edwards and Martin Finaghty came interesting collections of ornamental trees and shrubs, Mr. Finaghty also showing a good group of small conifers in pots.

W. A. Manda showed a novelty in ferns, Adiantum capillus veneris imbricata, which in form and color closely resembles Farleyense. A certificate of merit was awarded to it. A choice group of novelties and rare plants came from Pitcher & Manda, and certificates of merit were awarded to Stenandrium Lindenii, a pretty acquisition for jardinières, and Cattleya chrysozona in this exhibit. Certificates were also awarded to A. H. Wingett and A. P. Meredith for seedling anthuriums, and to J. F. Huss for anatomical leaves.

Of the fruit and vegetable display it is only necessary to say that it was superlatively good for such a hard season as has been experienced, and the premiums were well distributed between the same growers who exhibited the plants.

The Lenox Horticultural Society, although but eight months old, numbers eighty members already and evidently has a bright and useful future before it.

Arrangement of Flowers.

XI.

ROSE BASKETS.

The accompanying illustrations show two baskets of roses, made up loosely with long stemmed flowers. Both are handle baskets. The first is made up of Madame Testout, in the style much in demand at the present day. As often stated before there is a decided objection to wired roses, and many people will not have such under any circumstances. None of the roses in this or the second illustration have a single supporting wire. The materials for such a basket must be



ROSE BASKET NO 1
ARRANGEMENT OF FLOWERS.

strictly fresh and of good quality, else the flowers will droop quickly, and result in dissatisfaction. Extra care should be taken to imbue the stems well in the sphagnum. The roses being long stemmed are best wired onto match sticks, as toothpicks are too short and weak to hold up the flowers. Avoid overcrowding and use plenty of adiantum in the arrangement. The spray over the handle is formed of the same material, and may be varied to suit different tastes.

Illustration No. 2 is composed of equal quantities of Duchess of Albany and Kaiserin Augusta Victoria. The shape of the basket is somewhat different, but the arrangement is practically the same as No. 1.

Chicago.

As the season advances the chrysanthemum question is forging to the front, and from now until November, all the boys interested (and who is not?) will put in their best work to come out on the top of the heap. That the mum has come to stay is now admitted by the most sceptical; growers who ridiculed the so-called chrysanthemum fad unmercifully a few years ago have experienced a change of heart and are now into mums by the ten thousands. The suburbs, Western Springs, Hinsdale, Downer's Grove and Mount Greenwood, located southwest of the city, have always been to the front in this line. A visit to the three first named towns disclosed the fact that the boys in this section are right in it again.

At the station at Hinsdale we were met by our genial friend O. P. Bassett who acting the host and cicerone in his own inimitable way, first whirled us behind a spanking team over to the establishment of J. C. Vaughan at Western Springs. Foreman Wilson received us cordially and

tried to initiate us into the mystery of mum growing. If we didn't profit by the same, the fault is our own. We may acknowledge right here that our experience in growing mums is nil and for that same reason perhaps are led to think that we know a good plant when we see it. Take this for what it is worth; in our humble opinion the stock we found here looks exceedingly fine; the standards and other specimens promise to beat any former attempt at show plants. A fine lot of single stemmed fellows are grown in 6-inch pots. There are besides these three houses grown to single stem for cut flowers. Each one of the seven benches is treated in a different manner as an experiment; for instance one bench was planted in soil and manure mixed together, another with two inches of manure at the bottom and soil on top, a third with pure bone meal mixed in, etc. There is little difference apparent so far, all looking equally vigorous. In seedlings we find two benches containing several thousand plants, from which something good can be expected. These seedlings are the pick of last year, grown as yet under numbers.

We now drove back to Hinsdale; after first partaking of the gracious hospitality of Mrs. Bassett, we next inspected the mammoth establishment of our host. Of the excellent condition of the rose houses, as well as some valuable data of results, kindly furnished us by Mr. B. we shall speak more at length later on. In mums we find about 12,000 grown to single stem, as fine a lot of plants as were ever seen. The list includes all the best commercial sorts. One house of Domination attracted our particular attention; the plants are of such even height it looked as though they were clipped by a pair of shears. The show plants also look very fine and reflect great credit upon the able



ROSE BASKET NO. 2.
ARRANGEMENT OF FLOWERS.

foreman Mr. Benson. The single stem exhibition plants are grown in 7-inch pots.

Our next call was at Geo. Miller's. George was hard at work as usual. The place is now nearly in shape again, all but the boiler sheds, which are being built now. Mums will play an important part at this establishment next fall. Twenty-five thousand plants are grown, mostly to single stem. The whole stock looks thrifty; the banner house we venture to predict will be the one of Eugene Dailledouze which looks grand at present.

We next took a spin over to Downer's Grove, to the establishment of our old veteran D. B. Fuller. Jolly Tommy Hopkins is of course in charge. This isn't the first year that Tommy has demonstrated his knowledge of growing mums. As usual the stock looks fine. There are 1700 plants on benches, these are grown to 3 and 4 blooms each. We noticed some very fine Vivian-Morel in particular.

A few blocks away is the establishment of Mrs. Foot. Here too the mum is much in evidence; some 5000 plants are benched grown mostly to single stem, all looking well.

There is little change in market conditions. Demand is still very limited, and as the supply, particularly in roses, is increasing fast, prices are very unsettled. Only fancy stock commands the top figure of \$3, the bulk goes for much less. Good Beauties, and there is some very fine stock now for this season of the year, bring from \$1 to \$1.50 per dozen. J. B. Deamud & Co. handle some extra fine valley, the best ever seen on our market at this season of the year. This is grown by Bassett & Washburn.

Mr. John Holmes, one of our oldest

members in the trade, died last week. The deceased was well known as a member of the old firm of Brooker & Holmes, doing business for many years at 5818 State street.

Philadelphia.

The boys are still talking about the convention when they happen to meet at the stores or in the club; the special features as they appeared to different minds are gone over and commented on, and discussions take place that should have been heard in the convention hall. The bowlers are turning over the details of the match, and that "Buffalo angle" is receiving considerable attention. As compared with a "Philadelphia straight," the "straight" was not in it, but it still has its friends and may take a corner off the angle at some future time. The shooters as a matter of course are jubilant, and the bowlers have to take considerable chaff at their hands.

The state of things is quiet, very quiet; it is to be hoped that this is the final calm and very soon the storm of business will break loose in all its fury, and the more furious it becomes the better we will like it. To the average florist it would be a real pleasure at this time to be so tired out after a day's business that he could hardly get home.

The outlook is promising, however. Mr. Eisele, of H. A. Dreer's, says that the past July and August business has broken the record with them and they have been compelled to buy stock to fill orders. Kentias have sold particularly well, taking preference to arecas. At their city store they have had their show windows filled with a fine display of tomatoes nicely arranged in baskets and a large

collection of canna flowers correctly named; these latter made a gorgeous show.

Asters have been fine this season and all the stores have a few dozen pots just outside the door to make a little show and attract trade; they seem, however, to be more proficient in catching dust than customers. Cut asters are very plentiful and sell as a rule for 75 cents per hundred, the pots bringing \$6 to \$7 for the same quantity. Roses are now coming in in fine shape. Beauties are a good size and color, but the stems are not any too long. Kaiserin is in good shape, as is also La France. The other teas from roses for the wintercrops are commencing to come and show up well, there being little or no mildew apparent. The colors of the various assortments present a darker tone than formerly, as the Meteor is to be now found in nearly every grower's collection. The prices range from \$2 to \$4 for all but Beauties, for which \$8 is asked. There has been quite a lot of funeral work lately, but it was mainly a harvest for the crape pulling fraternity, as they managed to intercept the committees and got the cream of the business.

The meeting of the Florists' Club last Tuesday evening was a very interesting one, reports of the various committees were listened to with great attention, and they were highly commended for their work in making the various events so successful. A resolution was passed thanking the *Public Ledger* for their very complete reports of the convention and particularly praising the work of Mrs. Starr, the lady who had charge and who worked so faithfully to get a correct account of the proceedings.

A vote of thanks was also given to Mr. Edwards of Atlantic City for his services and the loan of plants to decorate the convention hall, and to Mrs. Theodore Edwards of Bridgeton for her enjoyable singing, both at Carisbrooke and at the entertainment on the pier.

Edwin Lonsdale exhibited three plants of *Cypripedium Charlesworthii*, each with one flower. It has more color than any other variety we have seen and will be a valued addition to most collections. Mr. Z. De Forest Ely also placed a vase of dahlias on the desk, among which were some pretty varieties. The question selected for discussion at the next meeting was "How to manage 20,000 feet of glass." Mr. John Welsh Young was assigned the subject, and will no doubt give the club a very interesting paper. Mr. Craig said that of all the money spent in Atlantic City he thought the little that it cost to color Mr. Harris' nose was by far the best investment the club had made. It had brought Mr. Harris out in a new role and raised the standard of the club in the estimation of the visitors, as it gave them an idea of the talent we had. He said that Mr. Eddy said he had made a study of this play and that he had never seen Mr. Harris' part played to such perfection before.

The photos of the groups at Carisbrooke Inn and on the pier were shown and were pronounced excellent; they should be valuable souvenirs of the convention.

Z. De Forest Ely has opened a wholesale commission branch in connection with his other business and is prepared to receive cut flowers on commission or orders to supply the same.

K.

New York.

There is just a little indication of reviving life in the cut flower trade. In roses, American Beauty, if strictly first-class, takes the lead and brings from fifteen to

twenty cents. Small Beauties are to be had by the bushel at bushel price. Other roses are in general overstocked. From one to three and four cents are the ruling prices for small selected lots, but by far the great bulk of the stock goes to the Greeks at five dollars a thousand.

The only scarcity noted is in white carnations. There is a demand for more than can be supplied and at prices double those received for colored varieties. Bridesmaid, Cusin and Perle roses are abundant and finely colored just now, but sell very slowly. Of the smaller roses none sell better than Kaiserin Augusta Victoria. Next to this comes Meteor.

Most of the rose growers are praying for water. In some sections there is a veritable famine and unless speedy relief comes there will be serious consequences. A new acquisition in the ranks of the rose growers is no less a personage than Mr. James Hart, famous as the first and only original cut flower commission man. Jim is growing some good stock over at his Madison houses and he consigns them to himself. That he will be satisfied with the return slips is to be hoped. "I'm always too easy and soft with them," says he. He's going to turn over a new leaf now and make himself the first victim of the new rules.

The two inseparables, W. A. Manda and Charlie Weathered, have gone to the Lenox Horticultural Society's exhibition. Mr. Manda's new *Adiantum capillus-veneris imbricata* is one of the best introductions of the season.

Boston.

There has never been a time when notes of news or interest were more difficult to pick up in this locality than just now. The convention is already somewhat of an old story, but it still does duty as the main subject of discussion and comment, and the unanimity of opinion regarding its merits is something remarkable. Unfavorable criticism positively does not exist and all who went pronounce it to have been the most enjoyable on record.

Of business, with the exception of a fair run of funeral work, there is none. The summer trade with seaside and mountain resorts, which a few years ago stood Boston in such good stead, is not what it used to be and no longer makes any appreciable impression on the prevailing prices. At all these places local enterprise supplies largely the stock which formerly had to be obtained from distant sources, and it is only when specially fancy goods or unusual quantities are wanted that Boston reaps much benefit.

The weather has been delightfully cool all through this section and rumors of light frosts in various localities are heard. The effect on the stock coming in has been favorable, particularly on roses. It is rarely that such clean well developed roses are seen in this market so early in the season. This superior quality is noted in all the standard varieties, but up to date it seems to make but little impression on customers, unfortunately.

The garden committee of the Massachusetts Horticultural Society, with a few friends, made a visit to the plum orchards and vineyards of George B. Andrews at Fitchburg, on August 29. Grape growing in the hard soil and severe climate of Massachusetts is something more than play, and Mr. Andrews is entitled to the highest credit for what he has accomplished by his perseverance and hard labor. The Delaware grapes are unprecedentedly fine this season, and the plum trees are a sight to behold. Mr. Andrews

attributes much of his success to thorough spraying. The visitors were hospitably entertained and for once had all the plums they could eat.

Elijah Wood, Boston's own "Little Woodie," is about to leave us and go to the far west, and much sincere lamenta-



ELIJAH A. WOOD.

tion is heard. He will leave a vacancy that it will be impossible to fill. The hearty good wishes of a host of friends will follow him and his bride to their new western home, and Boston hereby sends greeting to the Denver brethren unanimously recommending him to their confidence and friendship.

The Arnold Arboretum has acquired an additional tract of land seventy-five acres in extent, formerly known as Whitney Hill. Superintendent Bennett of Schenley Park, Pittsburg, and his right bower, Mr. Burke, spent a couple of days here after the convention and found much to interest them in the Arnold Arboretum and Boston's new park system.

Toronto.

"Canada's great fair," the Toronto Industrial Exhibition, is the big excitement for the two coming weeks, the 3rd to the 15th of September. The flower show in connection therewith promises to be an exceptionally good one, especially in stove and greenhouse decorative plants. The tug of war will be on two sections, one for the best 75 plants distinct varieties, the other for the best arranged table 19 feet by 16 feet. As it will be next to impossible for one to show in the two sections it is probable that the public institutions will show in the former and the florists in the latter. This was the object of making the two sections as they are, the prizes for each are the same, viz., \$60, \$40, \$30, \$20, and are worth straining a point to obtain. Mr. C. Swift, of Rochester, is to be the judge of plants and it is rumored that he has engaged a bullet proof suit, the inventor of which is now in the city. Mr. Swift has, however, given great satisfaction at former shows here and I scarcely think that he will find the aforesaid suit necessary.

The report of the weather bureau for the month of August is quite interesting reading; the total amount of rainfall was only .380, the second smallest in 55 years, and the mean temperature was 65.34, a little lower than the average.

Trade is likely to liven up a little during the exhibition, not because the visitors are at all flower buying people, but they bring money into the city and stir things up generally; business never really permanently begins for the season until the outside flowers have been killed off, and that time is drawing very near now.

The accounts of the proceedings and festivities indulged in by the members of the S. A. F. given by the AMERICAN FLORIST are enough to make those who were unfortunately unable to attend green with envy; what a mistake it is to be

poor. Walter Mott who was in the city the other day says that Canada was not represented at all; this is disgraceful!

E.

St. Paul, Minn.

Trade is improving every day and is fully up to or ahead of the average of former years at this season. White flowers for funeral work and weddings are in the greatest demand. There is a good supply of white roses of fair quality, as well as of other colors. Sweet peas are nearly gone and asters are of poor quality owing to the drouth. We are still suffering from the intense heat and drouth and the long delayed rain will not now be of much material assistance to the dead and dying vegetation when it does come.

Some weeks since your scribe stated that the veteran J. C. Fleischer was retiring from the florist business. This was an error, and we are now advised by Mr. Fleischer that he contemplates building new houses and engaging in the business more extensively than ever.

Mr. L. L. May has just returned from a short vacation spent at Mackinac Island and in northern Michigan. While returning the train on which he was a passenger ran into a landslide near Gladstone, Mich., overturning the car, which rolled down a forty foot embankment. Besides a general shaking up and a thorough scare there were no injuries sustained.

Mrs. Garges, well and favorably known to the trade here as one of the best design makers in the northwest, has removed to Cincinnati, O.

Several weddings are announced for the near future and as society will soon resume its giddy whirl the early fall trade should be exceptionally good. FELIX.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant ads. not admitted under this head.

SITUATION WANTED—As a mail or express packer, by a single man; 4 years experience. Address C. H. 88, care American Florist, Chicago.

SITUATION WANTED—As fireman by steady and sober young man who has good experience in both steam and hot water. Address A. B. care American Florist.

SITUATION WANTED—By experienced orchid grower and florist, as working foreman in good commercial or private place. Address J. S. Box 103, Tom's River, N. J.

SITUATION WANTED—By young man; abstainer, energetic, as foreman or assistant; commercial or private; cut flowers, bedding, foliage plants and ferns. W. J. POTTER, 638 Main St., Niagara Falls, N. Y.

SITUATION WANTED—By experienced grower of all round florist stock, and good maker up of designs and decorations. Might take a place on the profit sharing principle. Address C. F. EBLEN, Bedford, Pa.

SITUATION WANTED—By reliable and steady young man of good habits, who has had 7 years' experience in general greenhouse work. Steady place wanted. Willing and obliging, and not afraid of work. Address E. D. care American Florist.

SITUATION WANTED—By an Englishman as gardener and florist; life experience. Best of references. Married man. Please give particulars in answer. Address GARDENER, 123 Scoville St., West Cleveland, O.

SITUATION WANTED—By a single man; 4 years' experience in growing roses and bulbs; or would go as assistant in a large place. Good references. Address J. HOLLAND, Lakewood Greenhouses, Minneapolis, Minn.

SITUATION WANTED—Middle of September by a German, 29, as greenhouse assistant; well up in growing cut flowers. Roses a specialty. Can take charge of a small commercial place. East preferred (Philadelphia). Address B. E. care Am. Florist.

SITUATION WANTED—By a young man, as foreman or first assistant. Specialist in forcing roses. Sober. First-class references. Liberal wages wanted. Please state wages and other facts. Address H. C. care Harmon Coldes, 252 Shelby St., Indianapolis, Ind.

SITUATION WANTED—As foreman, by an expert in roses, carnations, violets, bulb forcing, etc. Al orchid, palm and fern grower. Thoroughly posted in all the different departments of the trade, in or out-door. Address **POSTOFFICE BOX 75, Short Hills, N. J.**

SITUATION WANTED—As assistant in greenhouses or store, by young American, single; used to first-class retail trade. Experienced in general greenhouse work and management; practical, reliable worker. Good salesman. Abstainer. Good references. Address **E P P, care American Florist.**

SITUATION WANTED—By practical florist, highly recommended, for experience and executive ability in the general requisites of commercial or private place, the nurseries, general propagation, etc., where such is needed. For particulars address **BROOKLYN, care American Florist.**

WANTED—Will Mr. Emil Knoll please call at office of American Florist, 322 Dearborn St.

WANTED—At once, assistant in private greenhouses; German, with some experience preferred. Salary \$40 per month without board. Address **H A, care American Florist.**

WANTED—In private place, a capable, single man of good habits, to take charge of conservatory, lawn and vegetable garden. German preferred. Address **MRS G. W. BARNES, 2939 Collingwood Ave., Toledo, Ohio.**

WANTED—A young man experienced in growing roses, carnations and a general stock, also good designer and decorator; must have A. No. 1 references and not afraid of work; one with a small capital preferred; one capable of taking entire charge. Chance of a lifetime for right man. Address **PALMS, care American Florist.**

FOR SALE CHEAP—Large second-hand florist's Ice Box, value about \$75. **VAUGHAN'S SEED STORE, 88 State Street, Chicago.**

FOR SALE—Small florist business in one of the best locations of the South Side, Chicago. Address **A B, care American Florist.**

FOR SALE CHEAP—A first-class florist business in a thriving town of 23,000 inhabitants. For particulars address **WISCONSIN, care Am. Florist.**

FOR SALE OR RENT—Greenhouse and celery garden. Good business; no competition. A bargain on account of ill health. Address **W. J. OLDS, Union City, Pa.**

FOR SALE—No. 5 Scollay boiler, used only 3 winters all in good condition; reason for selling, having put in 40-hour steam boiler; price on application. **J. B. FELTHOUSEN, Schenectady, N. Y.**

FOR SALE CHEAP—Large, new hard wood and glass florists Refrigerator. Used at World's Fair. Price reduced to \$175. **VAUGHAN'S SEED STORE, 146 & 148 West Washington St., Chicago.**

FOR RENT OR LEASE—A small greenhouse, good heater, water works and sewer in; more land to build on. Good location. Address **PAUL, 1008 Washington Ave., Racine, Wis.**

FOR SALE OR RENT—Greenhouses, either 15,000 or 30,000 square feet of glass, stocked with best variety of roses. Or will take partner with \$1,000 capital. Address **A. T. JACKSON, station X, Chicago.**

FOR SALE OR LEASE—Florist business in one of the finest cities and health resorts in Colorado; 5 greenhouses, each 75 by 20 feet, also dwelling; all heated with steam, and well stocked with roses carnations mums and violets. Trade wholesale and retail. Will sell stock and give long lease on the place, or will sell the whole place on easy terms. Reason for selling poor health. Address **VICTOR JOHNSON, box 884, Colorado Springs, Colo.**

FOR SALE.

Six (6) greenhouses, two hot water boilers, about 2000 feet 2-inch wrought iron pipe, valves, etc., lot of hotbed sash, frames, benches and about 35,000 flower pots. The entire plant will be sold at a very low cash price, as the whole must be removed off the premises before Sept. 1st. For particulars address **L. R. MUNN, Station C, Brooklyn, N. Y.**

FRITZ KLEIN.

Who can give me any information in regard to Fritz Klein, gardener, of Naurod, near Wiesbaden, Germany? The last was heard of him at Boston in the year 1873; since then he was not heard of. Information about him will kindly be sent to.

MR. F. SEULBERGER, Seedsman and Florist, 509, 511 & 513 Seventh St., Oakland, Cal.

DO YOU KNOW . . .

THAT YOU CAN GET

20 CANE STAKES FOR 1 CENT

A foot in length by simply using a sharp saw on a bundle of our best.

BRACKENRIDGE & CO., 304 W. Madison St., BALTIMORE, MD.

Roses. Roses. Roses.

Perle, Niphotos, Mermet, Bride, Victoria, Meteor, La France, Albany, Gontier, White La France, Soupert and Bridesmaid, 2 1-2 inch pots, \$5.00; 3-inch pots, \$6.00 per hundred.

AMERICAN BEAUTY, 2 1-2 inch, \$6.00; 3-inch, \$8.00 per hundred.

THIS STOCK IS WELL GROWN AND IN FINE CONDITION.

ESTATE OF M. A. HUNT, Terre Haute, Ind.

10,000 FIRST QUALITY FORGING ROSES.

Fully equal to those sent out the last two years, and perfectly healthy in every respect. Only selected growth from flowering wood used for propagating.

KAISERIN A. V. METEOR, SUNSETS, 3-loch pots, \$5.00 per 100. **MERMETS, SAFRANO, LA FRANCE, 3-loch pots, \$5.00 per 100.** **BRIDESMAID, PERLE, BON SILENE, 4-inch pots, \$8.00 per 100.** **MME. HOSTE, BRIDES, MME. CUSIN,**

J. L. DILLON, Bloomsburg, Pa.

AMERICAN BEAUTY, Bridesmaid, Cusin, La France, strong, 4-inch plants. **CARNATIONS, All the New and Old sorts.** **MARIE LOUISE VIOLETS, pot grown.** Please write for prices. **A. S. MacBEAN, Lakewood, New Jersey.**

Roses.

1000 MERMETS, 600 NIPHOTOS, 1000 BRIDES, 150 TESTOUTS.

All from 2 1/2-inch standard pots. These are to the very best of condition and as large as a great deal of the stock shipped from 3-inch pots.

Per doz. 75c.; per 100 \$5.00; per 1000 \$45.00.

Samples free to intending purchasers.

Pandanus Utilis.

6-inch pots.....\$5 00 per dozen
5-inch pots..... 3 00 per dozen
4-inch pots..... 2 00 per dozen

Cyperus Alternifolius.

3 1/2-inch pots, per doz. 75c; per 100 \$6
2 1/2-inch pots, " 60c; " \$4
2-inch pots, " 40c; " \$3

Grevillea Robusta.

3-inch pots, 10 to 15 inches high, per dozen \$1.00; per 100 \$8.00
2 1/2-inch pots, " 65c; " \$4.00

NATHAN SMITH & SON, ADRIAN, MICH.

ROSES.

Clean, healthy stock.

MERMETS, BRIDES, SUNSETS, NIPHOTOS, LA FRANCE, PERLES, MME. WATTEVILLE, BON SILENE, METEOR, PAPA GONTIER.

Strong plants, from 3-inch puts, \$8 per 100; \$75 per 1000. **WOOD BROTHERS, Fishkill, N. Y.**

We offer Special Inducements in

HOME GROWN

Azaleas and Genistas.

Send us a list of your requirements for our estimate before ordering elsewhere.

PITCHER & MANDA, Short Hills, N. J.

ROSES.

Warranted first quality. Surplus stock from 4-inch pots. Per 100

PERLES \$ 6 00
MERMETS 5 00
BRIDES 5 00
PAPA GONTIER 5 00

CASH WITH ORDER.

JOHN WHITE, Waverly Place, Elizabeth, N. J.

TO WHOM IT MAY CONCERN:

The firm of UHLMANN & HAISCH, of Memphis, Tenn., has been dissolved by mutual consent, and is succeeded by F. UHLMANN, who will carry on the business of florist in all its branches, and who will endeavor to maintain the enviable reputation gained by the late firm for high artistic work, and for elegance and promptness in the execution of all orders.

Watch this Space!

We will quote SOMETHING GOOD in the near future.

We sell only to the trade at Wholesale Prices.

Better not let your customers read your Florists' Trade Papers.

S. O. STREBY, Lock Box 77, UPPER SANDUSKY, OHIO.

ROSES AND CARNATIONS

For Winter Bloom.

MERMETS, BRIDES, BEAUTIES, PERLES, WATTEVILLE, METEOR, and WABAN.

Clean, healthy stock, from 3 1/2-inch pots, \$6.00 per 100; \$45.00 per 1000.

25,000 FIELD-GROWN CARNATIONS, fine, healthy stock. Send for list of varieties and prices.

FERNS—Adiantum cuneatum, 2 1/2-inch pots, \$3.00 per 100; from 4-inch pots, \$6.00 per 100. Ferns in fine assorted varieties, same price.

JAMES HORAN, Bridgeport, Conn.

Mention American Florist.

ROSES.

2 1/2-inch pots, Per 100 Per 1000
BRIDE.....\$2.50 \$22.50
MERMET..... 2.50 22.50
GONTIER..... 2.50 22.50
SOUPERT..... 2.50 22.50
WHITE LA FRANCE..... 2.75 24.00
SUNSET, PERLE..... 2.80 25.00

And all other standard varieties, 2 1/2, 3 1/2, and 4 1/2-inch pots. Write for prices on what you need. TERMS CASH WITH ORDER.

THE NATIONAL PLANT CO., Dayton, O.

ROSES.

Mermets, Cusins Wattévilles, Hoste, Meteor and La France, \$3.00 per 100. Strong American Beauties, \$5.00 per 100; \$40.00 per 1000. 500 at 1000 rates.

Special prices on quantity. Let me price your lists. Cash with order.

ROBERT F. TESSON, West Forest Park, St. Louis, Mo.

ROSES.

Surplus stock; clean, healthy plants, from 2 1/2 and 3-inch pots.

PERLE, SUNSET, NIPHOTOS, BRIDE, MERMET, M. NIEL, AMERICAN BEAUTY, LA FRANCE, ALBANY, THE QUEEN, MME. WATTEVILLE, and GUILLOT.

Fred. Dörner, Fred. Heintz and Victor Pelargonius. Samples free to intending purchasers, and the very lowest prices on application.

JOSEPH HEINTZ, Jacksonville, Ill. When writing mention the AMERICAN FLORIST.

THE AMERICAN FLORIST

Subscription \$1.00 a Year. To Europe, \$2.00.

Advertisements, 10 Cents a Line, Agate; Inch, \$1.40; Column, \$14.00. Cash with Order.

No Special Position Guaranteed.

Discounts, 6 times, 5 per cent; 13 times, 10 per cent; 26 times, 20 per cent; 52 times, 30 per cent. No reduction made for large space.

The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to those lines ONLY. Please to remember it.

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

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

Address THE AMERICAN FLORIST CO., Chicago.

Coming Exhibitions.

- CHICAGO, Nov. 9-11, Chrysanthemum show Hort. Society of Chicago. W. C. Egan, Sec'y, 620 Dearborn Ave.
- NEWPORT, R. I., Nov. 6-8, Chrysanthemum show Newport Hort. Society, Alex MacLellan, Sec'y, Ruggles Ave.
- BOSTON, Nov. 6-9, Chrysanthemum show Mass. Hort. Society, Robt. Manning, Sec'y, Horticultural Hall.
- PITTSFIELD, MASS., Nov. 6-9, Chrysanthemum show Berkshire County Gardeners' and Florists' Club, W. M. Edwards, Sec'y, 103 Howard St., Pittsfield.
- ST. LOUIS, MO., Nov. 6-9, Chrysanthemum show St. Louis Florists' Club, E. Schray, Sec'y, 4101 Pennsylvania Ave.
- INDIANAPOLIS, IND., Nov. 6-10, Chrysanthemum show Society of Indiana Florists, W. G. Bertermann, Sec'y, 37 Massachusetts Ave.
- PHILADELPHIA, PA., Nov. 6-10, Chrysanthemum show Pennsylvania Hort. Society, D. D. L. Farson, Sec'y, Horticultural Hall, Broad St.
- LOUISVILLE, KY., Nov. 6-10, Chrysanthemum show Louisville Florists, H. Nanz, Sec'y, 582 Fourth Ave.
- DENVER, COLO., Nov. 7-10, Chrysanthemum show Denver Florists' Club, Adam Kohankie, Sec'y, L.B. 375, So. Denver, Colo.
- PROVIDENCE, R. I., Nov. 8-10, Chrysanthemum show Rhode Island Hort. Society, C. W. Smith, Sec'y, 61 Westminster St.
- MONTREAL, Nov. 12-14, Chrysanthemum show Montreal Gardeners' and Florists' Club, Fred Bennett, Sec'y, 62 Aylmer St.
- BALTIMORE, Nov. 12-17, Chrysanthemum show Gardeners' Club of Baltimore, Wm. McRoberts, Jr., Sec'y, 304 W. Madison St.
- WORCESTER, MASS., Nov. 13-15, Chrysanthemum show Worcester County Hort. Society, Edw. W. Lincoln, Sec'y.
- TORONTO, ONT., Nov. 13-16, Chrysanthemum show Toronto Gardeners' and Florists' Ass'n, A. H. Ewing, Sec'y, 85 Carlton St.
- SPRINGFIELD, MASS., Nov. —, Chrysanthemum show Hampden County Hort. Society, W. F. Gale, Sec'y, 23 John St.
- MILWAUKEE, WIS., Nov. —, Chrysanthemum show Milwaukee Florists' Club, A. Klokner, Sec'y, 219 Grand Ave.
- HAMILTON, ONT., Nov. —, Chrysanthemum show Hamilton Agric. Society, Walter H. Bruce, Sec'y.

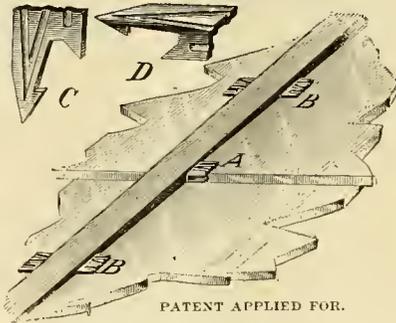
Secretaries will confer a favor by supplying dates as soon as decided upon. We shall be glad to know of any further shows decided upon and not included in our list, even if exact date is not yet determined.]

WE HAVE received from Mr. W. Baylor Hartland, of Cork, Ireland, an object that recently reached him under peculiar circumstances. It was a large cork upon which had been written simply "Hartland" and a U. S. 5 cent stamp attached. As the "package" reached its destination safely it is fair to assume that our postal clerks are not always dull, and the American wag who perpetrated the joke will probably be pleased to know of its success.

DO YOU WANT the census statistics regarding the florist, nursery and seed trades? You will find them in our trade directory and reference book for 1894. Price \$2.00.

PART II OF THE TRANSACTIONS of the Mass. Hort. Society for 1893 has been received by us. Among much useful matter contained the report of the garden committee will be found specially suggestive.

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SURPASS ALL OTHERS YET INTRODUCED IN THE MARKET FOR GLAZING GREENHOUSES.

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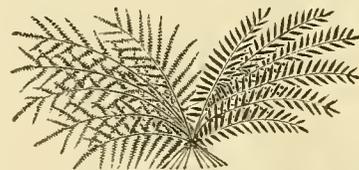
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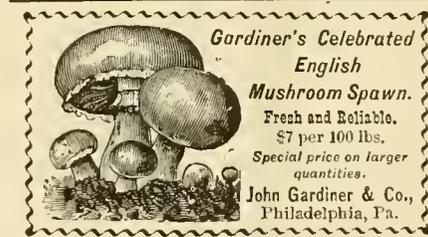


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Ready September: Grace Wilder, \$6 per 100. Daybreak, \$7 per 100. Strong, healthy plants.

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Roses.....	1.00@ 3.00
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" General assortment, per 1000.....	\$5@ \$10
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Carnations, long.....	.50@ .75
" short.....	.50@ .75
Adiantum.....	1.25
Hollyhocks, asters.....	.50
BUFFALO, Sept. 4.	
Roses, Beauties.....	10.00@15.00
" Mermet, Bride.....	4.00@ 6.00
" Perles, Gontler, Hoste.....	3.00@ 4.00
" Meteors.....	3.00@ 5.00
Carnations.....	.75@ 1.00
Asters.....	.50
Valley.....	3.00
Gladioli.....	1.00@ 3.00
Adiantum.....	1.25
Smilax.....	15.00@20.00
Asparagus.....	50.00

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FREESIAS.—Well, the less said about them the better. There are millions of them.

IT IS RUMORED that A. B. Cleveland was seriously injured in a mining accident, having had three ribs broken.

ROMAN HYACINTHS of the large sizes, anything from 12 cm. up are scarce, and prices abroad have advanced sharply. Dutch hyacinths are not at all abundant in the foreign markets. They were offered very low early in the season, but the low offers have all been withdrawn. Stiffer prices are likely to prevail on these bulbs in the future as they have been selling below the actual cost of production and many growers are abandoning their cultivation.

THE seed business formerly conducted by Edward F. Dibble, at Honeye Falls, N. Y., and the produce business of Frank P. Jobs of the same place, have been consolidated under the laws of the State of New York, into the Edward F. Dibble Seed Co., with a paid up capital of \$20,000, and is officered as follows: Edward F. Dibble, president; Frank P. Jobs, secretary and treasurer; and Edward F. Dibble, Frank P. Jobs and Alexander M. Holden, directors.

JAPANESE BULBS, longiflorum, auratum and the like are not likely to turn out as well as expected, owing to the drouth which has prevailed in that country as well as here. The bulbs are small sized in consequence. The effect of the war upon the supply of Chinese sacred lily bulbs is not yet certain. A good many are already on the way. The Chinese in this country say that no more will be shipped, but "the heathen Chinese is peculiar" and all he says is not quite gospel. If he is telling the truth the department stores will have to suffer first.

A Warning.

Look out for a party calling himself John R. Rolker, and falsely representing himself to be the son of Herman Rolker of New York, using his claim of relationship to get drafts cashed. He was last heard of in St. Louis.

WARE, MASS.—Harry A. Tucker was married on August 20 to Miss Lena Lovett.

EASTON, PA.—J. P. Bauman has given up the florist business and sold out his stock to W. F. Keller.

QUEENS, N. Y.—The greenhouses and other outbuildings on the premises of F. J. Lott were destroyed by fire on August 18. Loss about \$5,000.

NEWPORT, R. I.—The amount of \$1,937 was collected by subscription for the purpose of aiding florists whose property was so badly damaged by the great hail storm.

PEABODY, MASS.—John M. Ward, the well known florist, died here August 29, aged 58. Mr. Ward was a native of England, and went to St. John, N. B., some years ago, from there he settled in Peabody. He leaves a widow and several sons and daughters.

HIGHEST AWARD TO OUR BULBS AT ATLANTIC CITY. DUTCH BULBS NOW IN STORE. TRADE LIST READY.

PRIMULA CHINENSIS.

Strong plants from 2-inch pots.

SINGLE WHITE, RED and PINK per 100, \$4.00; per 1000, \$35.00. DOUBLE WHITE and MIXED " 6.00; " 50.00.

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Buy FIRST HAND. We will deliver Freesia Bulbs, all charges for transportation paid, as follows:

3-8 to 3-4 inch per 1000, \$4.00 1-4 to 5-8 inch per 1000, \$3.00

Liberal discount on larger lots. Send for our price list.

Order NOW your Japan Bulbs, Longiflorum, Auratum, Rubrum, Album, we are Headquarters. We are the ONLY FIRM in the U. S. who guarantee you SOUND BULBS delivered.

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SPECIALTY of Colored and Natural IMMORTELES.

Immortelle Wreaths of every dimension.

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I do not fill the orders containing less than 1000 bunches. Prices reduced, and samples free by mail. English correspondence.

WE SELL BULBS Special low prices to Florists & Dealers. WEEBER & DON, Seed Merchants and Growers. 114 Chambers Street, NEW YORK.

LILY VALLEY. From cold storage, finest quality, \$7.00 per 1000 LIL. LONGIFLORUM. 5-7 inches. \$2.50 per 100; \$21.00 per 1000 BERMUDA FREESIAS. 1 1/4-inch. \$2.00 per 1000 H. G. FAUST & CO., 64 & 66 N. Front Street, PHILA., PA.

READY NOW. Per 100 Per 1000 Lilium Harrisi, 5-7 inches. \$2.50 \$20.00 7-9 " 5.00 45.00 Roman Hyacinths, 1 1/2-1 5/8 cm. 2.75 25.00 Paper White Grandiflora 1.25 10.00 French grown Freesias, large bulbs50 5.00 English Milltrack Mushroom Spawns, per lb. 10c; per 100 lbs. \$5.00. CHAS. SCHWAKE, 404 E. 34th Street, NEW YORK.

SPECIAL OFFER TO AMERICAN TRADE. LOUIS DE SMET, NURSERYMAN, GHENT, BELGIUM, OFFER AS SPECIALTIES: Palms, Azalea indica, AZALEA MOLLIS, Budded, \$6 to \$10 per 100; Araucaria excelsa (thousands), Bay Trees, Begonias, Gloxinias. TRADE LIST ON DEMAND. English Correspondence.

Hulsebosch Brothers, OVERVEEN, near Haarlem, HOLLAND. Bulbs AND Plants

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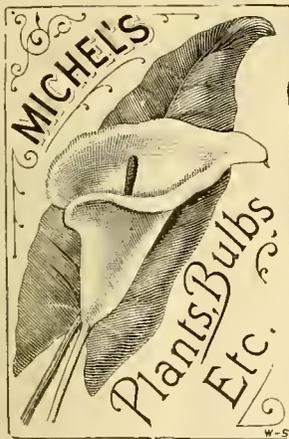
Our New List of BULBS and Autumn Sowing Seed is now ready, and will be mailed free to applicants.

August Rölker & Sons New York, 136 W. 24 Street, P. O. Station E.

FOR SALE for immediate delivery: FIRST QUALITY LILY of the VALLEY, BERLIN PIPS, from cold storage. C. H. JOOSTEN, 3 Centlies Slip, NEW YORK. IMPORTER OF BULBS AND PLANTS.

The Water Garden. Special and Hardy Water Lilies of all colors. VICTORIA REGIA and V. RANDI, EURYALE FEROX. Nelumbiums in variety, Hardy Ornamental plants, sub-aquatic plants, etc., etc. Nymphaea Laydekeri rosea (awarded a Medal at World's Fair); most charming of all the HARDY Lilies; \$2.50 each. Other Columbian Novelties see catalogue. WM. TRICKER & CO., Clifton, N. J.

FOR SALE. PRIMULA CHINENSIS, fine plants with 6 to 10 leaves, mixed varieties, \$2.00 per 100. Cash with order. M. & S. DYSTINGER, Albion, Mich.



Write for Wholesale List. MICHEL PLANT AND BULB CO., ST. LOUIS, MO.

SWAINSONA GALEGIFOLIA ALBA is rapidly forging to the front as an indispensable florist's flower, and we claim the credit of discovering its great merits, and pressing its excellent qualities to the wide awake florists of America. Fine plants in bloom in 5-inch pots, at \$5.00 per dozen. Seed for a sample dozen, in full bloom, to Money Order office, Station H. Phila. EDWIN LONSDALE, CHESTNUT HILL, PHILADELPHIA.

100,000 PANSIES BROWN'S SUPERB PANSIES READY NOW FOR PLANTING. Grower of all the leading variety, the ne plus ultra in pansies. For size and form it seems hardly possible to produce anything more perfect and superfine (most light colors). By mail, 75c. per 100; Free by express, \$5 00 per 1000. Liberal discount will be allowed on large orders. Cash with order. PETER BROWN, 721 Marietta Avenue, LANCASTER, Pa. Mention American Florist

MUSHROOM SPAWN. (English.) NEW IMPORTATION OF SEPT. 8th. Strictly A1, per 10 lbs. \$1.20; 100 lbs. \$8.00. CANE STAKES. Strong stock, in bundles of 250. Per 1000, \$5.00; 2,000 for \$9.50. SPHAGNUM MOSS. Large bales, extra clean for florists' use. Per bale, \$1.25; 5 bales for \$6.00. BONE MEAL. Every bag warranted pure bone. Per bag of 200 lbs., \$4.25; 1,000 lbs., \$17.00. HORN SHAVINGS. Coarse; 25 lbs., \$1.00; 100 lbs., \$3.00. Fine; 25 lbs., \$1.25; 100 lbs., \$3.50. Fall Bulb and Seed Catalogue now ready. Please send for one.

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NOVELTY. New, Semi-Double, Large Flowering WHITE MARGUERITE (Chrysanthemum frutescens.) Size of flowers 4 inches in diameter, petals clear white, center yellow.

PRICES FOR PLANTS FROM 2 1/2-INCH POTS, \$2.50 PER DOZEN; \$20 PER 100. Ready September 1. Cash with order. GRALLERT & CO., Florists, COLMA, San Mateo Co., CALIFORNIA.

Tuberous Begonias (GRIFFIN'S STRAIN.) Plants in bloom, all sizes, at lowest prices. OASIS NURSERY CO., Thos. Griffin, Mgr. Westbury Station, L. I., N. Y.

SMILAX. Plants from last fall; these have a foundation and will begin to run strong at once. \$2.50 per 100; \$20.00 per 1000.

CLEMATIS for Fall Delivery. Special prices at wholesale, on application. Splendid stock and assortment. F. A. BALLER, Bloomington, Ill.

ERNST RIEMSCHEIDER, Altona, Hamburg LILY OF THE VALLEY PIPS, BULBS, CHOICE SEEDS ETC. CATALOGUE FREE. SOLE AGENTS FOR U.S. AMERICA & CANADA. C. C. ADEL & CO., BOX 920, NEW YORK.

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Prices Lower Than Ever. Ready for shipment from July to September. Calla Aethiopica, fine dry roots in all sizes. Lil. Longiflorum, ready for shipment from October 1st to March 15, 1895. Lil. Auratum, Spec. Rubrum and Album, Etc. Iris Kampleri, in 100 choice varieties. Japanese Maples, in best varieties. Camellias, Paeonies, Tree Ferns, Raphis, Cycas Revoluta, superb growing plants with fine foliage from 25 cents to \$5 each; fresh imported stems, true long leaf variety, roots and leaves cut off, delivered from March, 1895. For general Japanese stock apply to F. Gonzalez & Co., 303 to 312 Wayne St., SAN FRANCISCO, CAL. Mention American Florist.

PANSY SEED. NEW CROP NOW READY. Very fine mixture of large flowering varieties and choice colors, especially selected for florists' use. 1 oz. \$3.00. NEW GIANT PRIZE PANSY, finest strain in the market. 1 oz. \$5.00. Low prices on Liliun Harrisii, Longiflorum, Roman Hyacinths, Lily of the Valley, etc. Special low prices on Rustic Baskets. HERRMANN'S SEED STORE, 413 EAST 34TH STREET, Near Long Island Ferry, NEW YORK. Mention American Florist

New, Rare and Beautiful Plants STEOBILANTHES DYFRIANUS. This is the most valuable novelty which has been introduced for years. For bedding is superior to the finest coleus. Withstands hot sun and dry weather better. A Large Collection of Rare Hot House and Green-house Plants, carefully grown, at low rates. ORCHIDS.—A very extensive stock; East Indian, Mexican, Central and South American, etc. RARE AND BEAUTIFUL EVERGREENS, Ornamental Trees Shrubs, etc. P. EONTES.—A large collection of the finest in cultivation. Hardy Perennials, Phloxes, Japanese Iris, Roses, Clematis, etc. New and Standard Fruits, etc. Catalogues on application. JOHN SAUL, WASHINGTON, D. C.

Choice Florist Seeds. Pansy, Calceolaria, Primula, Cineraria, choicest strains, at 25 and 50 cts. per trade packet. Special quotation on BULBS. W. A. MANDA, The Universal Horticultural Establishment, SOUTH ORANGE, N. J.

Smilax Plants Cheap. Out of 2 and 3-inch pots, also transplanted plants out of boxes. Never had as fine and large stock before. Please state number you desire and I will give you the lowest prices. Safe delivery and best satisfaction guaranteed with every shipment. Sample order 10 cts. Terms strictly cash. Address FRED SCHNEIDER, Wholesale Florist, Wyoming Co., ATTIKA, N. Y.

BUTTERCUP CARNATION 6 to 8c
PRIMROSES, assorted, 2 1/2-inch 4c
" " " 3 inch 5c
" " " 3 1/2-inch, strong 6c
McCREA & COLE, Battle Creek, Mich.

PANSIES... Every Grower Claims the Best. I am willing to have mine tested alongside of any in the market. Over a thousand florists used them last season, were pleased with them and made money out of them. Between Sept. 1st and Dec. 1st I will have a MILLION or more plants to sell. They can not be offered in competition with cheap grown seed, but quality considered, are remarkably cheap at the price. By Mail or Express, prepaid, 75c. per 100; by Express at your expense, \$5.00 per 1000. Liberal discount will be allowed on large orders. An honest sample of the plants will be mailed you on receipt of ten cents, and terms are absolutely cash in advance. ALBERT M. HERR, L. B. 496, Lancaster, Pa.

Pansy Star Seed. THE JENNINGS STRAIN of high grade Pansy Seed. New crop now ready. Saved with special care from only the very finest varieties and warranted first-class in every respect. THE JENNINGS XX STRAIN. The cream of Pansies. Grand colors mixed, pkt., 1500 seed, \$1.00; 1 oz. \$8.00. The Jennings Strain, finest mixed, pkt. \$1.00 about 2500 seed; 1 oz. \$5.00; 3 ozs \$15.00. No sklm milk in this strain. (They are just as good as I can make 'em). To my old patrons I would say they are a big improvement over last season—more variety and finer colors. The best strain for florists either for winter bloom or spring sales; all large flowering. Black Dr. Faust, finest, pkt., 2500 seed, \$1.00
Finest Yellow, black eye, " " 1.00
Pure White, the best, " " 1.00
Victoria, bright red, pkt., 1000 seed, 1.00
All my own growth of 1894. Half pkts. of any of the above 50c. Please send money orders or registered letter. Cash with order. Address E. B. JENNINGS, Wholesale Pansy Grower, Lock Box 254, SOUTHPORT, CONN.

Roemer's Superb Prize Pansies. The finest strain of Pansies in the World. Introducer and Grower of all the leading Novelties. Catalogue free on application. FRED ROEMER, SEED GROWER, QUEDLINBURG, GERMANY.

Pansies Worth Raising. STRONG PLANTS. Prepaid by mail \$1.00 per 100
At your expense by express, \$5.00 per 1000
Extra quality new seed, 1/4 ounce, \$1.00; 5 packages, \$4.00 Large quantities at special prices. Cash with order. CHRISTIAN SOLTAU, 199 Grant Ave., JERSEY CITY, N. J.

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TOBACCO DUST. Per 10 lbs 50c; 25 lbs \$1.00; 50 lbs \$1.50; 100 lbs \$2.50. Extra fine, per 100 lbs. \$5. Sample FREE. Vaughan's Seed Store, Box 688, Chicago.

Cincinnati.

Business undoubtedly is on the increase. Orders to the wholesale houses are beginning to come in, which shows that the smaller cities are awakening from their slumbers. Inquiries are also coming in asking for future stocks, and placing future orders. All this goes to show to we shall have a little business at least.

Fred Walz arranged a golden wedding decoration September 4, using quite a number of Perle roses and yellow cannas in connection with palms. He also showed us some very good seedling carnations; a variegated sort similar to J. J. Harrison is the best one I have seen from his collection.

On August 29, a harvest home festival was held at Cheviot, a small nearby town. These gatherings have been held for the last 30 years in some of the townships in Ohio and Kentucky. They are something on the order of a county fair. The farmers, gardeners and florists bring their different products and exhibit same for premiums. Three of our enterprising florists competed, Adam Frank, J. T. Conger, and S. S. Jackson. Frank succeeded in capturing the prize for best bouquet, best floral design, best hanging basket, and best collection of cut flowers, while Conger won prize for the general display, best collection of geraniums, gladiolus, greenhouse plants and best 5 varieties of variegated plants. S. S. Jackson got prize for best collection of dahlias.

We have quite a number of growers of cut flowers in the small towns adjoining Cincinnati who have started up within the past three years; in fact since the commission houses have started. R. M. Walker of Oxford, O., is one of these. He has six greenhouses, three of them 128x21 and three 70x20. One house and one half he has planted in carnations of the best sorts, and three and one-half houses planted in roses; consisting of American Beauty, Kaiserin Augusta Victoria, Testout, Bridesmaid, Brides, Mermets, Perles, Cusin, Woottons, etc. The remaining house is planted in chrysanthemums, and later will be used for forcing stock. Mr. Walker has as his foreman and grower Henry Stocking from Montreal, Canada, and we expect to see some good stock from this place.

Our visitors this week were Chas. Poment of Greenfield, O., the Messrs. Fisher, and Mr. McKeller, wife and sister from Chillicothe. The latter were on their way to Chicago for a few week's visit. Mr. McKeller is a great friend to the Niphotos rose and grows same to perfection. H. H. Ritter and family have returned home from Atlantic City and New York and is needless to say they enjoyed their trip.

G.

Greenhouse Building.

PITTSFIELD, MASS.—Jacob Raifstanger, house 104x18.

DOYLESTOWN, PA.—Mrs. S. A. Walton, two new rose houses.

PHILADELPHIA, PA.—Gillingham Bros. house 81x15 on Silmon street.

WOLLASTON, MASS.—Samuel Brown.

JOHNSTOWN, N. Y.—P. M. Simmons on corner Market and Clinton streets.

BABYLON, N. Y.—C. L. Tappan.

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HELEN KELLER, BOUTON D'OR, UNCLE JOHN, THE STUART,	\$15.00 per 100.

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 TERMS: Cash with order.
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 Some fine pieces of Cattleya Skinneri, 2 to 3 feet in diameter. For prices address
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Sweetbrier
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\$15.00 PER 100.
 Other varieties on application.
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 Strong and healthy plants, pot-grown, in 3-inch pots.
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 The new Carnation: pure white, delicately marked with red
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 Rooted Cuttings all sold or planted out. Field plants for sale in the fall.
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 The Pines. KENNETT SQUARE, Chester Co., PA.
 Mention American Florist.

THE COTTAGE GARDENS,
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WHOLESALE CARNATIONS.

Carnations a Specialty
 Rooted Cuttings and Young Plants sold out. Nice Field-Grown Plants in Sept. Send for prices.
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Indianapolis.

Since the opening of September business seems to improve. Several weddings are in view for this month and many in October. Many prominent people are returning from their summer outings; many more than usual have been camping out in tents in the neighborhood, showing that economy has to be used in many families. Surely this has been the dullest summer to the florists in this city, and it seems in many other places; that accounts for the absence of many at the convention. The reports from the bowling contest has started our club members into considering a meeting for the permanent organization of a bowling club; the only trouble here is a suitable place. There is talk of building one of their own.

John Heidenreich & Co. dissolved partnership June 15. Mr. John Grand started a new place as reported previously, Mr. John Heidenreich continuing in the old place, having repaired and arranged the same in splendid shape. Firm name now is John Heidenreich.

Bertermann Bros. have added one house 92x15 for chrysanthemums and forcing lilies.

Lorenz Schwartling, for some years owning the Woodlawn Greenhouses, has discontinued business.

The writer would like to warn florists in prominent cities against a Capt. Ward, claiming to be very wealthy, seems to inform himself of the names and habits of well-to-do citizens, and in that way create confidence. He claims to be intending to buy prominent buildings, etc. He says he buys hundreds of dollars worth of flowers to give away to his friends. Cincinnati has been a sufferer from him. An article in the Cincinnati *Enquirer* put the writer on his guard and prevented him from getting a good round flower bill; when refused credit he grew abusive. He is tall, slim, dashing habit, southern accent in his talk (Kentucky colonel style), wears slouch hat, claims to have been steamboat owner and captain.

The whole committee for final arrangements for the chrysanthemum show to be held here by the state society will meet in this city September 11. All indications are that this year's exhibition will eclipse all others. More plants are being raised and the splendid premium list will fill the hall to overflowing. Many special features will be added, notably a grand rose display. W. B.

Metal Designs

just received from our factory in Paris, a rich assortment of the very latest styles of Metal Wreaths Crosses, Bouquets, etc., tastefully decorated with porcelain flowers; all at reasonable prices.

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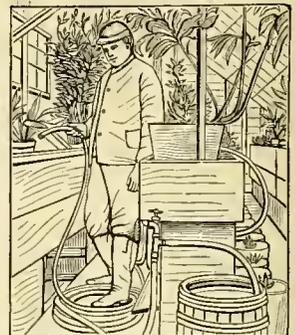
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Unfolding Tight-Fasteners.
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GREENHOUSE HEATING
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Superior Hot Water Boilers
JOHN A. SCOLLAY,
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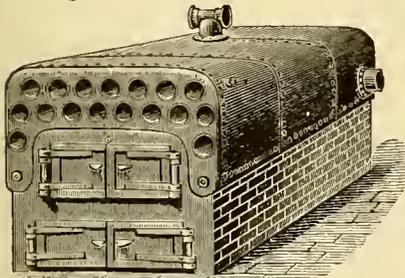
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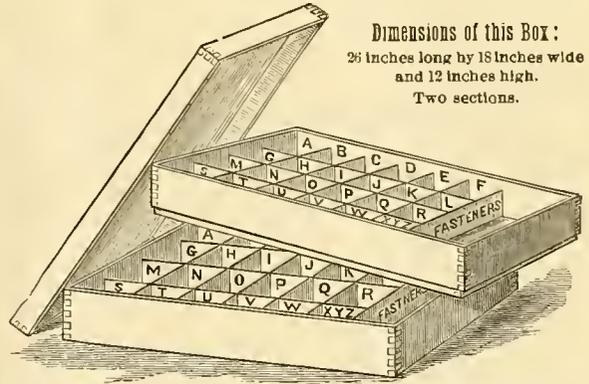
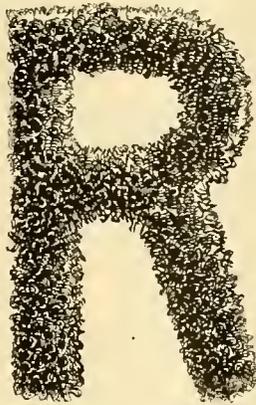
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Two sections.

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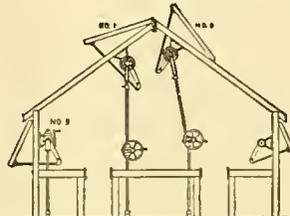
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No repairs for 5 years.
no chains to break
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Opens Sash uniform on
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Send for Catalogue and Es-
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THE GREAT ANTIPEST.

For particulars, see next week.

R. W. CARMAN, GEN'L AGT.,
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Annual Outing of the Minnesota Florists' Society.

The annual outing of the Society of Minnesota Florists this year took the form of a family picnic. Most everyone possessing wife and children brought them along, and a happy idea it was. We hope the ladies felt so much better this year, relieved from worry over their absent husbands, that we will always have them with us at our annual outings. The place selected was Wildwood Park, at White Bear Lake, a beautiful place of easy access from the city, and well provided with bowling alleys and other attractions.

In the bowling match Minneapolis was the winner, though not without a good fight. I think if Atlantic City was not so far away and times better some of the prizes contested for there would have been brought out to the northwest. A running race, ladies' race and other amusements filled up the time. The ball match did not take place, there being so many other diversions, and the balloon ascension did not take place, owing to the balloon catching fire while being inflated.

The outing was a great success, and it is hoped that next year the florists will make it a general holiday, closing their stores, so that everyone can go.

Aug. S. S.

Wholesale Prices of Flowers.

Some misguided individual in the trade has given a daily paper correspondent the prevailing wholesale prices of flowers and the said correspondent has used them as evidence of the large profits made, and the article has received wide publicity. As a consequence some of our readers complain that their customers object to paying such a heavy advance over wholesale rates as published in the article. As it is practically impossible to make the general public understand the wastage that makes net profits necessarily small when gross profits seem large, it is certainly very unwise to make wholesale rates known and the florist who gave out the information used has done the trade useless injury.

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

Standard Flower Pots.

10 per cent. off for cash with order. Special discount on large orders. We carry a large stock on hand of good strong pots.

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1 3/4-Inch pots, per 1000	\$ 3.00	6-Inch pots, per 1000	\$22.00
2 "	3.25	7 "	35.00
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3 "	5.00	10 "	per 100 10.00
3 1/2 "	7.25	11 "	15.00
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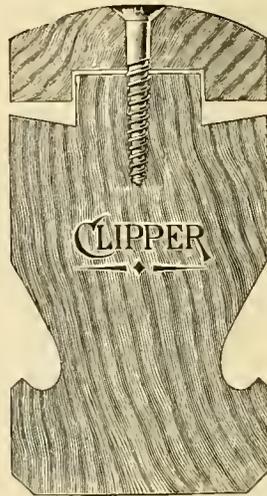
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EVANS' IMPROVED Challenge Ventilating Apparatus

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"Proof of the Pudding"

BALTIMORE, MD., May 29, 1894.
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Gentlemen:—Yours of the 18th inst. received, and in reply would say that it gives me pleasure in recommending your Cypress Greenhouse material which I have been getting from you the last four years, and it has given me entire satisfaction, as I could find nothing to equal it as to material or workmanship in any of our lumber yards.
Very truly,
JOHN COOK.

GUTTER MATERIAL, RIDGES, SASH, ETC.

The finest CLEAR CYPRESS used.

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STANDARD FLOWER POTS

Every user of Flower Pots should correspond with us before purchasing elsewhere. Our facilities are unequalled.

A. H. HEWS & CO., N. Cambridge, Mass.

Announcement to Florists.

We desire to announce the dissolution of the firm of Sipple Doppfel & Co., and to introduce to the trade its successor, The Syracuse Pottery Co., which will be under the management of William Doppfel and Conrad Breitschwerth. The business will be conducted as heretofore, except on a larger scale to meet the growing demand for our goods. We have accordingly enlarged our plant and capacity, and with unsurpassed facilities are now prepared to fill the largest order on short notice. Our latest improved machines are turning out the best and most serviceable flower pots in the market, and assuring you of our intention to lead in further improvements we solicit a continuance of your patronage in the belief that we can supply just what is needed at a price and in a manner satisfactory to all. Send for price list and samples and we know you will give us an order.

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STANDARD FLOWER POTS.

OLD RELIABLE MAKE OF

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STANDARD FLOWER POTS.

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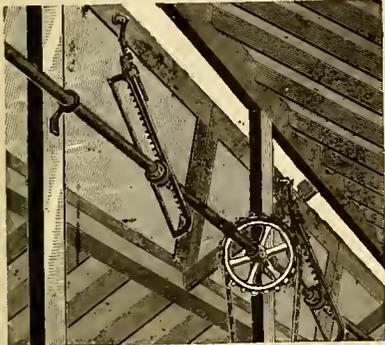
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We have got just the thing you need, the NEWEST and BEST thing out. "The New Departure" for about half the cost of the old style. Send for Descriptive Catalogue to

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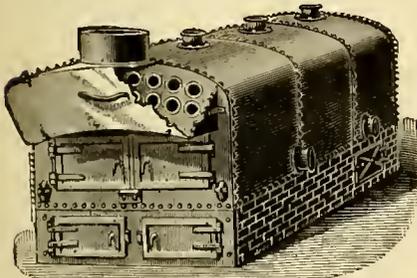
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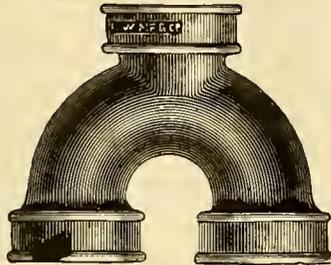
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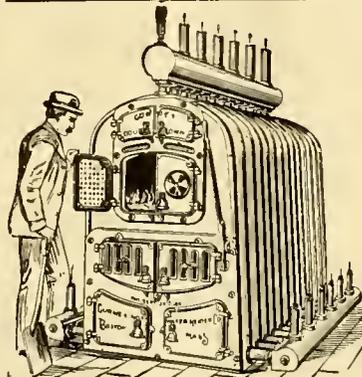
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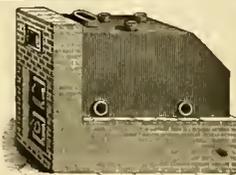
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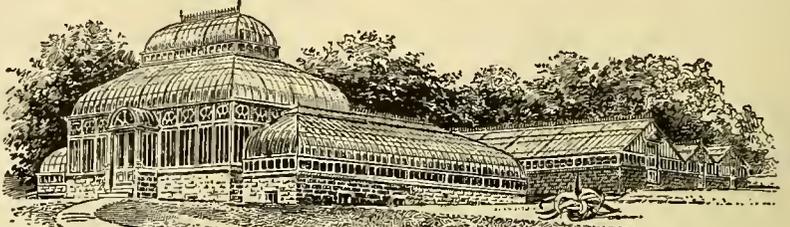
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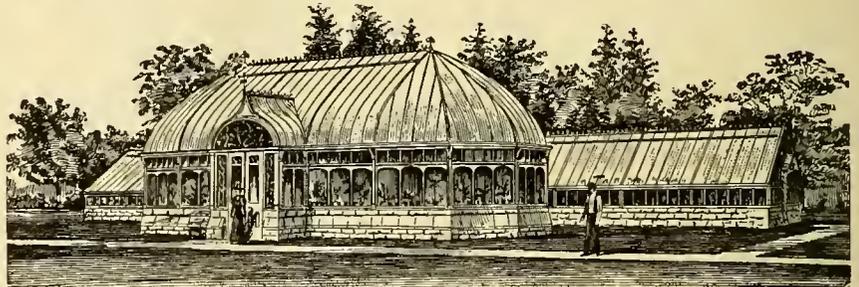
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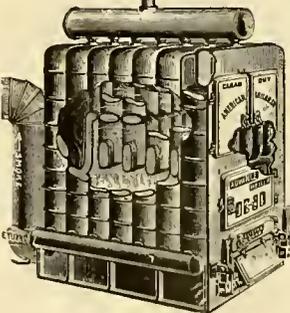
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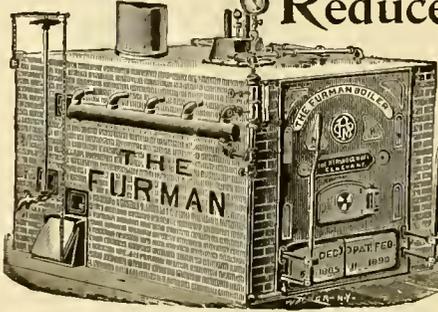
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THE AMERICAN FLORIST



America is "the Prow of the Vessel; there may be more comfort Amidships, but we are the first to touch Unknown Seas."

Vol. X. CHICAGO AND NEW YORK, SEPTEMBER 15, 1894. No. 328

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SOCIETY OF AMERICAN FLORISTS.

J. T. ANTHONY, Chicago, president; ROBERT KIFT, Philadelphia, vice-president; WM. J. STEWART, 67 Bromfield St., Boston, Mass., secretary.

The new officers to be installed Jan. 1, 1895, are: EDWIN LONSDALE, Chestnut Hill, Philadelphia, president; E. C. REINEMAN, Allegheny City, Pa., vice-president; WM. J. STEWART, Boston, secretary; H. B. BEATTY, Oil City, Pa., treasurer. The 11th annual meeting will be held at Pittsburg, Pa., August, 1895.

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News Items.

Subscribers are requested to report to us anything of trade interest that may take place in their vicinity. Where they happen to be nearer to the following points notes may be forwarded to our correspondents there, the name and address of each being given below:

- NEW YORK AND BOSTON.—W. J. Stewart, 67 Bromfield St., Boston.
- PHILADELPHIA.—Robert Kift, 1725 Chestnut St. CHICAGO.—Office of publication.
- ST. LOUIS.—Robert F. Tesson, West Forest Park.
- WASHINGTON.—C. Leslie Reynolds, U. S. Botanic Garden.
- TORONTO.—A. H. Ewing, 85 Carlton St.
- BALTIMORE.—Wm. McRoberts, Jr., 304 W. Madison St.
- BUFFALO.—Wm. Scott, 479 Main St.
- PITTSBURG.—A. J. Edmonds, 45 Dithridge St.
- DENVER.—H. H. Given, Cor. Lincoln and Alameda Sts.
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- CLEVELAND.—L. F. Darnell, 101 Enclid Ave.
- CINCINNATI.—E. G. Gillett, 131 Walnut St.
- INDIANAPOLIS.—W. G. Bertermann, 37 Massachusetts Ave.



Among Chicago Growers.

Bassett & Washburn's establishment at Hinsdale has held for a number of years the distinction of producing the largest cut of American Beauties in the west. Though closely pushed by one other firm in this line Bassett & Washburn still lead in the number of plants grown. 30,000 plants are benched this season and promise good results. But though Beauties are a specialty, this firm also grows a general line of the leading varieties in roses, all of which appear at the present writing in very fine shape. Mr. Bassett has kindly furnished us with some statistics of last season's business, which we hereby append. Says Mr. B.:

"For the purpose of starting the ball rolling and finding out as near as possible 'where we are at,' and in order that we all may gain by the experiences of one another, and for that reason only, I am induced to give somewhat in detail our way of conducting our business of growing roses, etc. In these times of close competition it is necessary that every grower should know the exact cost of production and the most economical way of doing business. The only way this can be accomplished is to keep an accurate account of the receipts and expenses in each and every department. By doing so he will soon learn where the leaks are and where the profits come in, what to grow and what to let alone. This will lead him in time, we have no doubt, into growing specialties, which we believe is the only true road to success. The time for growing a little of everything and anything is past. But there is lots of room on the top shelf and always will be, and he who takes up a special line—it hardly matters what—and grows that specialty to perfection, or as nearly so as possible, will always find a ready market at fair prices.

"It may be possible that if the growers would get into the habit of keeping accurate accounts of their income that Uncle Sam, under warrant of our new democratic income law, would have a better chance of prying into their affairs, but how many of us need be afraid of coming within the range of this law?

"It might be well in the first place to state that we are not practical growers ourselves, only being able to attend to the general supervision of the houses and business, therefore being obliged to hire

competent help it has cost us more to run our affairs than it would had we the knowledge to take the lead ourselves.

"To start with, we will say that about one-half of our houses for growing roses are built on the old plan, the long span to the south, with some houses detached, while others are connected with low saddle roof structures between. The other half are built in the late idea, with the short span to the south, and while we cannot see the least difference in the quality of flowers grown under the same treatment in the different houses, we can see great benefits in many ways of the latter method. In the first place the cost of construction is much less, as the houses all being connected only one outside wall will have to be built in a block of houses, also saving the expense of one-half of the gutters. Besides this there is a great saving of ground space, which cuts quite a figure where the site is an expensive one.

"The beds are all on a level and close to the ground, making it much easier to handle the plants. The saving of heat also is quite evident and is an item in the expense account, as there are but few outside walls to heat, and experience has proven to us the houses are about eight to ten degrees cooler in summer when the sun is shining, and in the same degree warmer in winter. In regard to snow in winter we find that this style is much preferable, as the steep south span keeps always clear, which is not the case with the old house. As to the north span, we find that the snow disappears fully as quickly there as on the other houses. We have built this summer and are now building a number of houses in this style, and can safely say that under no circumstances would we build in future on the old plan.

"Our whole plant is heated by steam by a battery of four large boilers using crude oil for fuel, which after considerable experience with soft coal we pronounce far superior. The saving in labor is considerable, one man being able to take care of any amount of glass and do the watching, there being no coal to shovel or ashes to handle, and if your fireman is competent he can keep the heat in the house without regard to weather at a perfectly even temperature. The fire can be cut off in a second's time when not needed and started up again under full headway at a moment's notice. It is absolutely safe to use, and without the least odor arising from it; there is no smoke to settle on the glass. Where lump coal is worth \$2.75 per ton there is practically no difference in the cost of fuel, and right here we might state that during the past season there has been but one month (July) that we didn't use steam heat in our houses.

"We employ only men of experience in our establishment (no boys whatever, as it takes the time of two men to keep one boy busy). Our houses are divided into

sections or departments, and one man with an assistant where required put in charge, and he is expected to see that everything is kept in good order. He is never asked to go into another section for the purpose of helping out except at planting time, and for that only. A competent foreman or superintendent has charge of the entire plant, who has full power to hire and discharge the men, as he sees fit, and he is held responsible for the proper management of the place. All the work of emptying and refilling the houses with new soil, cleaning up, etc., is done by labor hired for the purpose. By following this plan we know who is responsible for any neglect, and we find every man takes a pride in doing his part properly and keeping the houses under his charge in as good condition as possible.

"In regard to cost in conducting our business we find that it takes within a small fraction of eight cents per square foot of glass for help, five cents per square foot of glass for heating, and about two cents for incidentals, making in all fifteen cents per square foot of glass for heating and taking care of the houses for one year. As to the square foot of bench room, which we do not consider a fair way of getting at the cost, as some growers are much more generous in their walks than others, we find the cost to have been within a fraction of twenty-eight cents a square foot. We estimate that five cents per square foot of glass will pay the interest on the investment and wear and tear of the houses. Our cut of flowers for the past year has been below our average, the cause of which we might trace to several sources. The shortage is most marked in Beauties. We were short of stock of our own propagation and obliged to purchase 5,000 plants; these were from late struck cuttings taken from soft wood, making exceedingly fine growth, but they gave few flowers until spring. The yield of Brides also was very small, the plants being injured by too severe trimming in the fall and meeting with other mishaps. American Beauties, which are our specialty, averaged 13 good salable blooms per plant; Brides, 24; Perles, 33; Kaiserin, 13; La France, 43; Albany, 24; Bridesmaid, 43; Hoste, 25; Mermets, 25; Woottons, 27; Testout, 19; Mermets, 25; Meteors, 33. The above is the cut practically for nine months, as we replant every year, thus giving three months for the young stock to come into bearing. The Testout, Victoria, Hoste and Mermet, however, were thrown out much earlier than the others in order to make room for other stuff, which accounts in a measure for the very small showing of these varieties. We find that plants paid best in the following order, according to space occupied on the bench, the time grown and the price realized: Meteors, Testout, Bridesmaid, La France, Beauties, Perles, Woottons, Brides, Mermets, Albany, Hoste and Kaiserin. The latter were grown only during the winter months and yielded but little, the blooms being of little account. As we do not all have the same facilities in selling our flowers, to give prices received for each bud or the total per plant would not be of much benefit to others, and we will not touch upon that point. When the growers have the good sense to unite in forming an exchange or market on the right principle and then patronize and keep good faith with it, then and not until then will they realize a more uniform price for their stock, but we are afraid that that time will not come very soon, if ever.

"With our experience we have dropped the Hoste entirely, as the color kills it for our market. The Kaiserin with us has proved a very poor winter rose, but we may give it a trial for summer. Testout in our opinion is the best pink rose for winter, but we find it of little use for summer, it being too single. For an all the year around pink variety the Bridesmaid has proved with us the best of all; with us it has taken the place of Mermets altogether.

"Bulbs? Well when you talk of bulbs we know very well 'where we are at.' Our experience with these has been most disastrous last season, and it's dollars to doughnuts that we sha'n't monkey with the buzz-saw again very soon. On several kinds we did not realize the cost of the bulbs, not to mention the labor, and yet we have had probably as good facilities for disposing of our stock as anybody in the business."

The Convention of 1894; Why a Success.

The following collection of views of a few of the more observant gentlemen who attended the meeting at Atlantic City, as to what features of that occasion impressed them most strongly, received in reply to a score or so of inquiries sent out by us, will no doubt prove very interesting to the readers of the AMERICAN FLORIST. We almost regret, on seeing how interesting some of these responses are, that we did not send out many more. But we trust that the suggestions thrown out in them may spur others of our readers to an expression of their own experiences or a discussion of some of the points in question. We shall be glad to give space to all who will favor us with their contribution, only requesting that it be always brief and to the point.

One of the best things about a convention of people who are interested in a united purpose is the resulting contact of individuals who are ready and quick to exchange ideas on a subject which is the common interest of all. This opportunity was appreciated and made good use of by the members of the Society of American Florists. It is not often that one may find such readiness and cordiality which was plainly shown in the short speeches of the members before the convention; I noticed that whatever one member said was supplemented by another; and approval or disapproval was marked by a cordial and earnest effort to reach after what was best and truest. The common business interests of all were discussed in a very interesting way, and certainly the efforts to adopt some new principles of business were commendable in the highest degree. It was more than evident that the florist intended to keep not only abreast, but perhaps a little ahead of the times. If a fair and candid expression of views will help the progress of the florist's profession then that profession is helped.

It is not always the case that a convention means unanimity of sentiment and action; but certainly it appeared to me that this convention did mean that, and therefore I conceive that its object was gained with undoubted success. When one returns home after a search for something good, and the good thing is attained, one is the better and happier for it. In my opinion all the florists must have returned to their homes with heads full of good practical ideas and new aspirations; if this will prove to be the case then we may look for more flowers and

better ones in the future, no matter what we have that seems good enough now, according to my impressions received before the late convention.

F. SCHUYLER MATHEWS.

A successful convention, such as that just passed at Atlantic City, cannot be otherwise than very beneficial to the S. A. F. as a body and to all the members of our craft throughout the country. The points leading to this great success were, first, a good attendance of members, a nice exhibition of choice things throughout well arranged and a very nice sized hall in a very quiet neighborhood for the meetings, where every speaker could be distinctly heard without effort on either side; these combined with the best selection of essays as a whole that we have ever had at any one convention delivered as they were by men who thoroughly understood what they were talking about made every session thoroughly interesting and instructive; and those who did not hear such essays as Mr. Mathews' on color or Mr. Rawson's on 'mums missed a rare treat, for though they have been printed in the FLORIST yet to get the full benefit of the rich juicy meat they contained it was absolutely necessary to have it direct from the essayist's mind. The same remark applies to all the others; each and all had their especial value and excellent points; the discussions of most of the papers read were also very interesting and instructive.

Added to all this the place of meeting, Atlantic City, possesses many attractive features which hardly any other place in the country has for such a gathering. Its fine bracing air, sea bathing, board walk and abundant accommodation, varied as it is to suit every taste and pocket, all tended to make it a general success, and notwithstanding the great attraction of the city a very fair attendance was drawn together each meeting, showing that the florists are earnest in the pursuit of knowledge appertaining to their business, and every live florist who wishes to keep abreast of the times should certainly try to be present to get the benefit of the thoughts of the leading men in their respective lines.

The above are only a part of the factors which were working toward the success of the convention. Some of them could only be discovered by careful study of the situation. The programme of the Philadelphia club's entertainments was certainly on the whole quite a factor in bringing together such a large delegation in such a stringent time as the present, and their leaving each and all ample time to seek their own entertainment (excepting their own committee, who were working hard all the time for our pleasure, all honor and praise to the Philadelphia club) made it very pleasant for all, and the universal comment as far as I have heard has been that everyone was more than pleased and returned to their homes and business feeling that the Atlantic City convention has been one of, if not the most, successful the S. A. F. has ever held, also the most enjoyable to all who visited it, including yours truly,

JOHN N. MAY.

"The wild waves said come," and the florists from the north, south, east and west responded. What made the convention a success? The number that attended and the interest they manifested. Why did they attend? Various reasons; some came to buy, others to sell, some to attain and others to impart knowledge,



THE GREENHOUSES OF MESSRS. BASSETT & WASHBURN, HINSDALE, ILL.

but all to socially meet their fellow members whom they have met before, and have learned by successive meetings to know and appreciate. Each year that the members of the S. A. F. come together marks a mile stone up the hill of progress, and it is higher each time we gather. Not alone the careful essay which has cost the writer hours of weary toil, nor the work of the patient committeeman who had burned the midnight oil for the benefit of his fellows, is all the knowledge we gain at the fraternal gatherings. If all the information that is imparted in the private colloquy, the interchange of opinions that occur around the festive board, or the ideas that are advanced pro and con over new inventions, new plants or novel exhibits, could be gathered and disseminated to the men that do not belong to the S. A. F. would cease to wonder at the success of our meetings. Fun? Of course! It is the spice that flavors. Social intercourse? Yes. It is the salt that savors. But so long as intellect is necessary to produce good plants so long will the S. A. F. be a power in the land.

JOHN G. ESLER.

Freedom from intense summer heat in an invigorating atmosphere, good meeting place, good exhibition, a continuously changing panorama of human nature in good behavior and Philadelphia's lavish entertaining, conspired to make the '94 convention something that will linger in one's memory.

Seriously, I'm inclined to creep into the garb of a cynic maybe, or a pessimist, regarding the S. A. F. convention, though it is much with the craft in general that I'd incline to take issues with.

It seems a bit too bad when all the unselfish work is gone into that the stay-at-homes are so conspicuous by absence. Four ex-presidents were there. Where were Thorpe, Hill, Norton, Dean? Where were scores of others of formerly valiant enthusiasm? We met in a florists' locality, and when only a beggarly 400 there attended it seems as though either the S. A. F. was on a decline or else the apathy of the craft is significantly noticeable. It seems to me that we florists are in the dawn of seeing ahead much that could be undertaken with profit to this generation, and in the interests of coming generations at the same time. It needs more work and less adulterated congratulations on the little that has been accomplished. It seems to me too had that the suggestions of Pres. Anthony about certificates could not be met and handled in some form, no matter much how modified. *Trying* something, even though one may not be fully persuaded of direct success, would be surely better than no effort, and likely would sooner lead to what experience would demonstrate as practical. A dozen points might be almost elaborated on and pointed out, but time forbids, and maybe life is too short for it anyhow.

If we subtract from the attendance the exhibitors and their attaches and those who came to be amused *only* and to vote, and consider the very small territory of this large U. S. that was covered or represented by attendance, is there anything to boast about in this, the 10th year of the S. A. F.

DAN'L B. LONG.

The exhilarating effect of the delightful

climate of Atlantic City on the spirits and the appetite, the novelty of the surroundings and freedom from restraint, the gratifying combination of business and pleasure, the hopefulness for the future caused by the recent removal of business uncertainties, the progressive spirit shows in the essays and discussions, and in the general business of the convention, the generous and systematic work of the entertainers, the hail-fellow-well-met feeling of everybody—these, in my humble opinion, are among the elements which made the tenth annual a big success.

Among the individuals who helped—I don't know what we would have done without such omnipresent, impossible-to-tire-out people as Stewart, Craig, Burton, Westcott, Kift, Ball, Scott, Lonsdale, Battles and others who had the peculiar gift of being able to keep wide awake all day and never go to sleep at night. "Falstaff" and his henchman "Bardolph" will live long in our memories, and I suppose will be talked of when more important things are sunk in oblivion. In their way they certainly helped to make the convention a success. The bowling and shooting matches are all right; they work for ultimate good, like good music in a church. Let the dance go on.

G. C. WATSON.

The convention was an unqualified success in every particular.

The essays were of a high order, practical and of the greatest usefulness to the profession. I doubt if ever so much good sense was ever laid before any previous convention.

The fact that Atlantic City is on our

extreme eastern shore, combined with hard times, accounts for a slim attendance from the north and western states. Particularly was it noticed that not a single Canadian could be found, more the pity.

The oratorical display of illuminated blank verse poetry by G. P. Rawson was the bright star of the convention and lifted its author at one bound from a star of the third magnitude to a planet the size of Jupiter.

It is to be regretted that large audiences cannot be induced to listen to the essays and discussions. This is largely accounted for by the essayist reading his own effusion, and in most cases not having voice enough to be heard beyond the first half dozen rows of seats. A pantomime of the Merry Wives of Windsor may go, but a pantomime on the culture of some particular plant produces drowsiness. None but good loud clear readers should occupy the platform.

The all round pleasant, instructive, enjoyable and withal decorous meeting must be first attributed to the able and generous management of the Philadelphia Florists' Club, and next to the beautiful and health giving city at which the convention was held.

WM. SCOTT.

It was a good convention throughout. The essays with the exception of mine were good and up to date. It was worth the trip from Iowa to hear Mr. Rawson deliver his alone. Mr. Taylor's essay on roses was very instructive, and from Mr. Mathews' on colors I learned a great deal, and we all could hear all the remarks and essays, so that they were all instructive and interesting to those who love our profession. The Philadelphia Florists Club managed to have the exhibition and convention halls close together, and made it agreeable to all.

To one who started out with the intentions to learn and also to enjoy life Atlantic City is the place. The salt water bathing is excellent, as I know from experience; the oysters are extra good and the beach and the board walk are a perfect Midway of sights and pleasures.

Taking everything into consideration the convention at Atlantic City under the auspices of the Philadelphia Florists' Club could not be anything else but a success. No live, wide-awake florists can afford to stay away from such a grand convention where there is so much food for thought.

J. T. TEMPLE.

The contributory causes leading to the success of the Atlantic City convention of the S. A. F. would be summarized by me as follows:

The magnificent weather, the unique city by the sea, the sea itself with its grand beach, the open handed hospitality of the Phila. Florists' Club, the perfect arrangements; all these rested the body and mind and prepared everyone for the business of the convention. To these I would add: The remarkably good trade exhibit, the excellent essays, notably the ones delivered by Messrs. Grove P. Rawson and F. Schuyler Mathews, the candidacy of two such splendid men for the presidency, showing that the honor is not considered an empty one; the election of such a fine board of officers and last, but not least, the unique and pleasing series of entertainments provided by the Phila. Florists' Club.

The most valuable feature of the convention I think was the trade exhibition.

PATRICK O'MARA.

I hardly think that my individual opinion would be valuable as comparative, since I have not attended any previous convention. But the attractive feature of the Atlantic City meeting was the friendly spirit of true hospitality as evidenced in many ways by the Philadelphia brethren and the florists clubs generally.

I offer suggestions for future conventions: 1.—Evening of first day, President's reception, where everybody shall be welcome and become better acquainted with each other. I should like to see this feature carried out at Pittsburg. I think it would be a worthy compliment to the president and satisfactory all around.

2.—Discussions led by so and so, with the speaker as chairman pro tem, and he to call out from individual members the salient points of the subject in hand, also inviting free discussion.

A change in programme often develops new interest, even if there is no great improvement as a whole. As an age we demand more or less novelty.

GROVE P. RAWSON.

The discussion of the chrysanthemum was a very good and interesting one.

How to obtain a good practical man: Mr. John May's opinion was the best to my knowledge. By personal experience as soon as I enter a florist's place I can judge at a glance whether a man may be entitled to a recommendation or not.

The success of the convention is due to our Philadelphia brothers, for which we must reward them with the highest credit, because the harmony was so well preserved that nothing was left undone to make every one's heart joyful.

The only further remark I have to make is that in the future a little more time may be devoted to business matters and not so much to pleasure, to keep the society in prosperity.

CHAS. ZELLER.

The recent convention held in Atlantic City will no doubt have a lasting impression upon all who were at the meeting. It would be difficult to pick out the star attraction, either business or social. The essays were of a high order, very instructive and entertaining. I will repeat the remark made by an old gentleman from a Pennsylvania town, which I think gives a fair expression.

"The present convention shows marked improvement over those of the past; it appears to me that each year there is an upward tendency in all the business and social matters, which is a wholesome indication."

D. D. L. FARSON.

The exceedingly practical talks of Mr. F. Schuyler Mathews on color, and Mr. Grove P. Rawson on the evolution of the chrysanthemum, were to my mind the gems of the convention. Add to these the other valuable papers prepared and read, the very successful manner in which the programme was carried out each day and the lovely bracing weather it was our good fortune to experience, and you have the reasons the recent convention was such a success.

ROBERT KIFT.

1. The perfect arrangements of the several committees of the Philadelphia Florists' Club, every detail having been carried out to the letter. The proverbial hospitality of the Phila. boys would make any undertaking a success.

2. The trade exhibit, which I consider the best that the S. A. F. meeting ever had.

3. The essays, which in my opinion were practical and very instructive, that

of Mr. Grove P. Rawson on "mums" being worth the trip alone.

4. The meeting place and its environments, the cool breezes, the dip in the briny deep, which would dispel any tired feeling and open up a new line of thought.

H. L. SUNDERBRUCH.

The clear, concise and very able, scientific and practical essays read at the meetings of the Society of American Florists at Atlantic City, with the absence of tediousness at the meetings; the very interesting and varied exhibits, the fine location and delightful weather, the courtesy and kindness of the brethren, especially of New York and Philadelphia, combined to make the meeting to me the most impressive, progressive and enjoyable I have attended.

JOHN SPALDING.

Our Atlantic City convention was a success because the members had something to say and said it well, and because the exhibition was the best we have ever had.

It would be hard to designate any one special feature as being the most valuable, for it is the diversity of the subjects treated that really is the key to success.

One great feature was the freedom from noise and turmoil, which enabled an ordinary speaker to be heard, and thus encouraged us to have something to say.

A. M. HERR.

The essays delivered at Atlantic City together with the hospitality of the Philadelphia Florists' Club will live in memories of the members of the S. A. F.

EUGENE DAILLEDOUZE.

The "Goose Flower."

The wonderful effectiveness of "popular" names was well illustrated by a recent experience of Mr. Fred Kanst, superintendent of the South Parks, Chicago. When the *Aristolochia gigas* Sturtevantii began to bloom it attracted some little attention, but not to any very great degree until in conversation with a reporter for a daily paper Mr. Kanst called it the "goose flower" in response to the reporter's demand for its "common" name. The next day there appeared a very "taking" article on the wonderful "goose flower" in bloom at the park greenhouses, and for a week or more the crowds of visitors were handled with difficulty. It was necessary to form a line and pass the people in front of the vine as quickly as possible in order that all might have a glimpse of the flowers.

Our illustration shows a few of the flowers as placed for the visitors so the curious form might be readily perceived. At the left is seen Mr. Kanst's son Edward holding one of the flowers.

At the World's Fair Chrysanthemum Show a whorled anemone flower to which was attached the name "Ferris wheel" attracted more attention from the general public than any other one flower and it was made much of by the reporters. There is no doubt that the newspaper reports of this flower brought many people to the show who would not otherwise have come.

Will it not be wise for the managers of exhibitions to prepare for the edification of the reporters and the general public a few catchy names of this sort? They would surely have great advertising value, and if not overdone would not detract seriously from the dignity of the exhibition.



THE "GOOSE FLOWER."

Seasonable Work Among Decorative Plants.

The month of September is one of the best in the year for growth among palms and other decorative stock, but from the fact that the nights are usually very damp at that time it is advisable to use a little judgment in the matter of syringing and watering, and to perform these operations somewhat earlier in the day than is found necessary during the early summer. Palms in general will now be benefited by a little fire heat at night, but as long as the weather will permit it is good practice to keep the ventilators open to a reasonable extent during the night, this treatment tending to produce stocky growth and firm and substantial foliage, both of which are important points in the durability of plants that are to be used for house decoration.

Cleanliness is of course an important item in the production of perfect foliage, and with this in view a continual warfare must be waged on the many insect pests to which our most useful foliage plants are subject, and at no season is this warfare more needed than just now, for with the application of fire heat a fresh outbreak of scale, red spiders and thrips may be looked for, if any there be about the plants or houses. It is possible to have perfectly clean stock if one can grow them on from the seedling stage in a clean house and keep them isolated from any infested plants, but such favoring conditions are seldom found in everyday practice, and we therefore find it necessary to dip or sponge with some insecticide at more or less frequent intervals in order to produce salable palms.

Shading is still needed for this class of plants, though not so heavy a coating

should be allowed on the glass as is required at midsummer, else the foliage will become soft and drawn, and naturally such foliage will not stand the exposure incident to decorating.

It is not yet too late to pot on thrifty young plants of the usual trade species of palms, for there are still several weeks of good growing weather in which this late potted stock will become nicely established, but between November 1 and February 1 comparatively little growth is made by palms, and I do not think much headway is gained by potting during that interval. It is also good practice to set over the plants on the benches frequently, not only for the purpose of weeding and cleaning them, but also to turn them around and thus prevent any one-sided growth, at the same time giving space enough for perfect development, it being poor economy to crowd too many plants on a bench.

To the small grower there is but little profit in buying palm seeds with a view to raising his own stock, and it is much more satisfactory for him to buy healthy young stock from a large dealer, thus making sure of a given number of plants instead of trusting to the uncertainties of a seed deal.

Pandanus are among the useful decorative plants in many localities and at this season should be growing freely, and require plenty of light, air and space to insure a stocky growth. These plants enjoy good living and can utilize a considerable amount of fertilizer in the soil, probably the safest agent for this purpose being some well rotted and rather dry stable manure. In potting pandanus it is best not to ram the soil too hard, the coarse fleshy roots of these plants prefer-

ring a somewhat loose soil, and the potting operation is still in order for any stock that is likely to suffer for root room before the days begin to lengthen again.

The propagation of *Ficus elastica* by topping can be readily managed at this time, and the young plants will be a useful size for next spring's sales if they are given reasonable care. In fact this method of increase may be practiced successfully at any season, but during the winter months will occupy a much longer time than in summer.

The various small plants that are so useful for window boxes, mantel decorations and other purposes, and among which are *Acorus japonicus variegatus*, *Maranta Massangana*, *Cyperus alternifolius* and its variegated form, *Rex begonias* and *Reineckia carnea* var., should also be watched over and prepared for the coming season, for a suitable stock of such plants will greatly simplify the labor of decoration and furnish the means for some very pleasing effects.

W. H. TAPLIN.

Mass. Horticultural Society.

AWARDS MADE AT THE ANNUAL EXHIBITION
SEPTEMBER 5-6.

Palms—Pair in pots or tubs not more than 24 inches in diameter, Dr. C. G. Weld. Pair in pots not more than 14 inches in diameter, N. T. Kidder.

Greenhouse plants—Six greenhouse or stove plants of different named varieties, N. T. Kidder; second, J. L. Gardner, third, Dr. C. G. Weld. Single plant for table decoration, dressed at the base with living plants only, the second prize to N. T. Kidder; third, E. S. Converse.

Ornamental leaved plants—Six named varieties not offered in the collection of greenhouse plants, crotons and dracanas not admissible, N. T. Kidder; second, N. T. Kidder. Single specimen, variegated, named, not offered in any collection, N. T. Kidder; second, Dr. C. G. Weld; third, Dr. C. G. Weld.

Caladiums—Six named varieties, N. T. Kidder; second, Dr. C. G. Weld.

Ferns—Six named varieties, no adiantums admissible, N. S. Kidder; second, Dr. C. G. Weld.

Adiantums—Five distinct named species, Dr. C. G. Weld; second, N. T. Kidder.

Lycopods—Four named varieties, N. T. Kidder; second, Dr. C. G. Weld.

Dracaenas—Six named varieties, Dr. C. G. Weld; second, N. T. Kidder.

Crotons—Six in 6-inch pots, Dr. C. G. Weld; third, J. L. Gardner.

Nepenthes—Three plants, named, J. L. Gardner.

Orchids—Six plants, named varieties, in bloom, J. L. Gardner. Three plants, Benjamin Grey. Single plant, J. L. Gardner.

Tuberous begonias—Six pots of six varieties, C. E. Weld; second, E. S. Converse; third, C. E. Weld; fourth, Bussey Institution.

Awards for flowers, Theodora Lyman fund—Aquatic plants, display, including not less than 12 flowers of nymphæas and nelumbiums, John Simpkins; second, Daniel D. Lee; third, L. W. Goodell.

Asters, collection of 50 varieties, one flower each vase, Sumner Coolidge; second, Charles H. Yates; third, John L. Gardner.

Dahlias, double, 12 blooms, distinct named varieties, John Parker; second, W. W. Rawson; third, Wm. C. Winter. Six blooms, W. W. Rawson; second, John Parker; third, Lawrence H. Parker. Specimen bloom, John Parker, "James Cocker;" second, Wm. C. Winter, "Black Knight." Liliupitium display, 25 bottles, not less than eight named varieties, W. C. Winter; second, Wm. C. Winter; third, W. W. Rawson.

Lilium lancifolium—Collection of named varieties, Sumner Coolidge. Tropæolums; display filling 25 vases, Dr. C. G. Weld; second, William Patterson; third, A. L. Cain. Marigolds, display of French and African, filling 25 vases, F. B. Hayes; second, Bussey Institution. Cannas, collection of not less than 10 named varieties, in spikes, with foliage, David Fisher; second, W. H. Cowing. Double zinnias, 25 flowers, not less than six varieties, F. B. Hayes; second, Dr. C. G. Weld; third, Mary T. Goddard. Single dianthus, collection of annual and biennial varieties, filling 50 bottles, F. B. Hayes. Basket of flowers, best arranged, Mrs. E. M. Gill. Native plants, collection not exceeding 40 bottles, Mrs. P. D. Richards; second, Geo. H. Grinnell; third, Misses Eleanor A. and Mollie S. Doran.

Certificates of merit were awarded to John Simpkins for *Nymphaea delicatissima* and *Nymphaea Deanaiaua*; to R. & J. Farquhar & Co. for new cannas, to the Oasis Nursery Company for tuberous begonias and to W. A. Manda for *Adiantum capillus-veneris imbricata*. P. Bisset received complimentary notice for seedling nymphæas.

Cemetery Superintendents Meet.

The eighth annual convention of the Association of Cemetery Superintendents was held at the LaFayette Hotel in Philadelphia, September 11, 12, and 13. The proceedings of this association, which is so closely allied in many respects to horticulture, were of a very interesting character. At least half of the members are or have been florists or associated in some way with the business.

The first meeting of the society was held in Cincinnati with fifteen members present. The membership has now grown to about one hundred, and some seventy-five or more delegates attended the past convention.

The officers are President, Wm. Salway, Spring Grove Cemetery, Cincinnati; Vice-President, Timothy McCarthy, Swan Point, Providence, R. I.; Secretary and Treasurer, Frank Eurich, Woodlawn, Toledo, O.

Among the most interesting papers read and discussed were: "What are the advantages to the management; also to the lot holders, of the modern or lawn plan of cemeteries?" by Mr. Robert Schrivener. "Suitable trees and shrubs for a modern cemetery," by Thos. B. Meehan, "How to make and care care for a lawn," by Henry A. Dreer. There was also an address from the Memorial Art League of Philadelphia which was very interesting, the paper showing conclusively the difference between the artist and the artisan. The speaker praised the association and said the League was glad to encourage all effort that tended to improve and elevate the tastes of the people.

The lawn plan for the improvement of

cemeteries seemed to be the main question in the minds of the delegates in their visits to the local cemeteries. The modern cemetery is to have as near as possible the appearance of a well kept park with beautiful lawns. The lots are not to be divided by fences or stone copings. There are to be no gravel walks, only the driveways. The foot paths are sodded. The corner stones marking lots are to be level with the ground, only low headstones are allowed to mark separate graves but each lot can have a monument to suit the owner's fancy. The lot holders are also to be restricted as to the kind of flowers and shrubs they are to plant. Vases are to be tabooed as the superintendents say they are more often objects of neglect than ornaments. The planting of perennials rather than annuals is to be encouraged. K.

Toronto.

The Industrial Exhibition opened on Tuesday last and will be in full swing until the 14th inst. At present only the plants are to be seen in the horticultural building; the cut flowers and designs appear during the last of the week. The show of plants is probably the largest and best that has ever been made in this city, and those who have attended Toronto flower shows will know that that is saying a good deal, but still one hears the same old complaint from the public—not enough flowering plants—too much foliage. Of course there are a good many flowering plants, but with the exception of three or four big allamandas and a few orchids they are small and a little ordinary compared with the foliage plants. There were five competitors in the section for 75 stove and greenhouse plants, distinct varieties. John Chambers, Exhibition Park, took the first prize with a truly magnificent lot; every plant was a healthy, well grown specimen; they do Mr. Fred Bromham, the man who did the actual work of growing them, the highest credit. Among the plants worthy of special notice were *Adiantum cardiochloenum*, *Woodwardia radicans*, not a spot on it; *Microlepia hirta cristata*, a simply immense specimen; crotons in variety, lusty and well colored; aloccasias, anthuriums, marantas, dieffenbachias, etc., etc. Next came Mr. W. Houston, from the Central Prison, with a very fine lot also, more especially in palms and tree ferns; the other plants were very good also, but smaller than the preceding lot. Mr. Geo. Reeves of Reservoir Park, third with a good lot of plants, but not in quite as good health as usual. Messrs. Manton Bros. and John Cotterill came in a tie for fourth prize, all good salable plants with the exception of a few old stagers.

For the tables 16x19 feet the most tastefully arranged there were three entries; Mr. W. J. Laing got his due award this year, coming in first for a really beautiful arrangement. Mr. Laing seems to have a bred and born taste for arranging plants naturally and artistically. Messrs. Manton Bros. were next with a very pretty table, and John Cotterill third with a table containing lots of good plants, but having the appearance of being packed too closely, an improvement, however, on the usual clipped bank. But, goodness gracious! it is incredible the number of plants it took to fill these three tables; the prizes need be pretty good to pay for the hauling.

For 12 stove and greenhouse plants John Chambers also took first prize with a fine

lot; Geo. Reeves second and Wm. Houston third.

For the 24 and 12 stove and greenhouse flowering plants John Chambers first again and Manton Bros. second.

Ferns made a big show, some immense specimens being shown. Mr. Houston in the 12 for which he took first had a magnificent *Neottopteris nidus avis*, *Adiantum formosum*, *A. trapeziforme*, *Alsephila australis*, *Microlepia hirta cristata*, etc.

For the 24 in 6-inch pots John Chambers was once more first, Horticultural Gardens second (A. Watkins) and the Asylum (J. Graham) third.

For 50 ferns in 3-inch pots there were 6 entries; John Cotterill first, W. J. Laing second and A. Gilchrist third. There was also a large exhibit of palms of all sorts and sizes, the plants being very good and the competition keen.

Orchids outside of a few nice cattleyas did not amount to much; some good things were shown in the new and rare section. Among Mr. Houston's lot I noticed *Strobilanthes Dyerianus* (a new bedding plant), *Dracaena Sanderiana* (exhibited at the World's Fair for the first time last year), *D. Leopoldii*, *Croton Goldring*, etc.

The above are only some of the principal sections. It is a pity there was not a more suitable building to put them in, but it is hoped the directors will manage to get up a decent one before the next show. As I mentioned in my last notes, Mr. Charles Swift of Rochester acted as judge, and as far as I could see performed his difficult task well. A little grumbling only was reported, but where the competition is keen and close that is inevitable.

Victoria Kandii has been blooming in the lily pond at the Central Prison. This is probably the first *Victoria* that has deigned to bloom in Canada in the open air. The pond is warmed by the exhaust steam from the prison workshops.

Some very heavy showers have visited us during this last week and vegetation is looking decidedly fresher. There will be no more need of hose outdoors this year. E.

New York.

Transient trade has begun to pick up a little with the retailers but the wholesale dealers find business decidedly unsatisfactory as the cut continues to increase and the summer shipping trade comes to a close. The retailers have not yet got sufficient confidence to buy any stock on chance. A vase or two of almost anything in the flower line suffices for a window decoration and beyond that they buy when they get an order and not till then.

The market is undoubtedly destined to have a full test of its capacity for American Beauties during the coming season. Many growers who for one reason or another have let Beauty alone hitherto have taken it up this year and planted one or more houses of it. When the full crop begins to make itself felt then the strain will come. One thing is certain, if a grower is to make anything out of Beauty this year his stock must be first-class.

The meeting of the Florists' Club on Monday evening, September 10, was the most poorly attended for many moons. Beyond a couple of committee reports little business was transacted. The arrival of Capt. Leuly at a later hour with the handsome second prize pitcher under his arm, which his bowling team had won at Atlantic City, was the signal for a

round of applause. Considerable sparing followed between Capt. Leuly and Mr. Ernest Asmus as to who should be entitled to the honor of filling the pitcher. The result was a compromise for they finally locked arms and marched out together, returning in a few minutes carrying the now heavy pitcher between them, whereupon the boys all fell to and sampled the contents.

A vote of thanks was passed to John Lewis Childs, F. R. Pierson and A. S. Burns, in acknowledgement of the flowers contributed by these gentlemen for the decoration of the tables on Steamer Priscilla on the occasion of the breakfast given to the Boston delegation to Atlantic City and also to C. H. Allen for similar donations from that gentleman for the decoration of the special train.

The new office of Mr. A. Rhotert, agent for Vilmorin's electros, at 26 Barclay street, is handsomely fitted up, the walls being hung with many fine colored representations of fruit, vegetables and flowers. A glass case contains samples of papier mache imitations of vegetables useful for seedsmen's show windows and there is on file a full collection of all the electros and publications of Vilmorin, Andrieux & Co. Visitors are always welcomed.

August Rolker & Sons started the auction season on Wednesday, September 12, with a big and successful palm sale, and will continue hereafter on every Tuesday and Friday. Orchids from the estate of the late F. T. McFadden will be the specialty at Wm. Elliott's on Tuesday, September 18.

The display of geraniums at the Essex Heights Floral Co. has been exceedingly fine this year, there being five beds, each one thousand feet in length, and the dry weather being just such as geraniums revel in. There are 175 varieties in the collection.

Wm. Tricker & Co. report a constant stream of visitors, sometimes over one hundred a day to see their display of aquatics at Clifton. The largest plant of *Victoria regia* has fifteen leaves on it, and produced a dozen flowers last month.

Adolph Schrage, for several years bookkeeper and office manager for Julius Rochrs, is locked up and awaiting trial on the charge of raising a check for \$29.40 to \$100.

Boston.

The new quarters of the Growers' Co-operative Association on Park street are now completed. The choice of stalls was auctioned off on Thursday, August 6, N. F. McCarthy officiating with much acceptability as auctioneer. The best locations brought good premiums, and the amount realized from the sale made quite an addition to the treasury of the association.

We have had several copious rainfalls within the past week, and outdoor vegetation begins to show the good results of the much needed wetting. Outdoor shrubbery has suffered very severely, and much of it is already dead, and fruit is dropping off prematurely.

The cut flower trade has not improved any since last report. A fair call for white carnations and asters is noted. Thoroughly cold weather is needed to give business a start.

The Boston delegation for the convention of Cemetery Superintendents at Philadelphia started via Fall River line on Sunday p. m., 9th inst. Among the number were Henry Ross and H. W. Ross of Newton Cemetery, G. W. Cressey of Har-

mony Grove, Salem; J. F. Shapleigh, Cedar Grove, Dorchester; W. Stone, Pine Grove, Lynn; and Mr. Smith, Holyhood, Brookline.

The gold watch and chain which was the outcome of the little paper which was circulated among the truly elect at Atlantic City arrived at its destination, Little Woodie's pocket, by express a couple of days before his departure for the West. The recipient is very proud of it, as he has good right to be, for it is a beauty and will no doubt be a continual reminder of his old friends and the good old times.

Thomas A. Kilduff, a highly respected member of the craft, and member of the Gardeners' and Florists' Club, died at his home in Dorchester on September 3.

Philadelphia.

Joseph Marschultz, of Marschultz & Co., the florists' supply dealers of North Fourth street, this city, died September 7, aged 42 years. The deceased was connected with the firm of M. M. Bayersdorfer & Co. for a number of years, withdrawing finally he entered into partnership with M. Bacharah, now deceased, and established the present business. Some time after Mr. Bacharah's death another partnership was formed which continued a few years and was dissolved to form the present firm of Jos. Marschultz & Co., the company being M. Rice. Mr. Marschultz was a perfect gentleman as well as a good business man and was much esteemed by all who knew him.

A scamp who represented himself to be connected with S. Mount & Co. of St. Louis, is going the rounds of the eastern cities working the bogus check and confidence game. It seems strange that men will continue to be caught giving change for worthless checks on account of large bill of goods sold. He was turned down at H. A. Dreer's, H. Michell's and John Gardiner & Co.'s, but succeeded we are told in some other places. He had evidently just come from Baltimore as he gave checks on banks of that city. Word had been sent to Philadelphia of his coming but too late. H. A. Dreer gave him a receipted bill for an order of goods bought but held them and soon found the check worthless. He has been heard from in New York. He is described as about five feet nine inches tall, dressed in black frock coat, light pantaloons and broad brim straw hat. He is a fair talker having some knowledge of the business, but his writing is anything but business-like. The police of New York and Boston have been notified and it is likely he will soon get his deserts.

James Mackay, lately foreman at the Rowlandville Nurseries, Phila., has been appointed to take charge of the Rosemont Nurseries, at Catonsville, Maryland. Mr. Mackay has had an extended experience in both private and commercial places, having managed the celebrated Hoey estate at Long Branch when it was at its best, and has also been engaged with such firms as Hallock, Taylor and others in the commercial line. His new employer is to be congratulated on having secured a first-class all round man to build up his rapidly growing trade in the delightful suburb of Baltimore.

Chicago.

There is very little improvement in the cut flower trade as yet. The past week has been extremely quiet. With a full supply of good stock, particularly in roses, the market was weak and prices

in consequence had a downward tendency. Nominally the quotations remain the same, but the returns made to the grower disclose a different story. One of our rose growers states that the net proceeds of 5,000 buds sent in last week was \$14.65, a little less than 30 cents per 100. This figure would hardly pay for the picking not to mention cost of production. Beauties are about the only roses that meet with fair demand; these hold their own at from 8 to 12 in spite of a constantly increasing supply.

The copious rains of the last ten days or so is proving of great benefit to carnations and violets that are still in the fields. Although the general average is below the standard a few weeks of this kind of weather will make a wonderful improvement in the size of plants.

Dahlia's are now coming in but are of indifferent quality. Asters are still abundant but with few exceptions rather poor. Joe Smart of Hyde Park, is, however, cutting some very fine ones of the chrysanthemum type.

Poehlman Bros., of Morton Grove, have added six new houses 125x18 to their establishment; these are planted to roses.

Worcester, Mass.

The drouth has continued to hold undisputed sway, and vegetation has suffered terribly in consequence; the long delayed rain which we have all been praying for came on Thursday morning, and was indeed a blessing.

Carnations lifted a great deal better than could reasonably be expected, and though somewhat smaller than usual are in a thrifty condition. Violets planted in the field were a failure, as it was impossible to keep off the spider; those planted in the houses are looking well. Chrysanthemums and roses are in excellent condition. Lange is cutting some splendid Mermets, and Fred Madans is bringing in some very good mignonette.

The horticultural exhibit at the New England fair was very good as a whole, made up of the usual things in summer flowering stuff, relieved here and there by groups of palms and foliage plants. The display of oval and handle baskets and vases of cut flowers made a bright and attractive spot in the hall, but the designs as a rule were made up of very vivid colors that were not arranged harmoniously; the most attractive vase, an arrangement of pink asters and *Asparagus plumosus*, was shown by Mrs. F. H. Merrifield. If the ornamental foliage plants had not been crowded so closely they would have made a much better effect, as the quality of the plants was first-class and the variety good. F. H. Wesson and F. A. Blake carried off first and second prizes. Very good exhibits of gladioli were shown by H. B. Watts and F. A. Blake.

The regular weekly exhibition of the horticultural society was one of the best and largest displays we have had this season; as there is a good natured rivalry between the two societies, everybody made an effort to bring an especially good display, and the result was a splendid exhibition. Probably the stands of cut flowers were the most attractive, and there was an unusually large number of entries; H. F. A. Lange was awarded first and A. A. Hixon second. The exhibits of bouquets were very good in both amateur and florist classes and were made up in very good taste; H. F. A. Lange first and W. J. Wood second in the florist class; amateur, F. A. Blake first and H. A. Jones second.

The display of large flowered and pom-

pon dahlias was also exceptionally good and made a handsome table; J. A. Abbott and F. A. Blake took first and second respectively in the large flowered, and F. A. Blake and A. A. Hixon in the pompon class. Edward Hall was awarded first, with H. B. Watts second, for a splendid display of nasturtium and tropeolums. Several good stands of verbenas, made up of good varieties and well staged, were shown, and in this class H. B. Watts was first and H. A. Jones a close second. A splendid display of stocks was put in by F. A. Blake and H. B. Watts showed some splendid gladiolus. Fred Madans exhibited two stands of cut flowers, which were very creditable. About twenty gratuities were awarded.

SEEDLING.

St. Paul.

Trade continues to improve though slowly. The growers were the first to feel the effects of the general depression and will be the last to recover from it. Retailers have obtained as high or higher prices this year than last, while growers have witnessed a gradual drop from month to month. Country orders are coming in more freely and this with an increased demand for funeral designs keeps the supply down.

Bright sunny days has been the main feature of the weather and has brought blooms out in good shape. Meteor and Kaiserin are very fine. A few cold nights have necessitated firing to prevent mildew and its disastrous consequences.

Carnations are being housed as rapidly as possible. The new varieties have made a splendid growth while all are looking better than we anticipated earlier in the season. Our growers have not paid the same amount of attention to the "Divine Flower" that they have to the rose, consequently we cannot boast of their products in that line. The newer varieties shipped in from the best carnation growers show more vigorous healthy growth because they were propagated from plants used only for propagating purposes. What can we expect when we force the plant to give us all the bloom possible and then further drain it by taking cuttings for the propagating bench.

Uncle John, which gives promise of so much has shown a decided tendency to rust. We trust this is not a peculiarity of this variety as its robust habit of growth, its long stems and its large solid blossoms of purest white commend it to every grower.

A light frost nipped the plants at the park quite a little and damaged all tender plants somewhat. The drouth continues and there is but little left for Jack Frost.

In our sister city, Minneapolis, trade is reported dull. Department stores there are handling roses again, in fact have been selling more or less all summer, and this has hurt local trade. Inquiry reveals the fact that these flowers are purchased mostly in eastern cities, so that our home florists cannot be blamed for "killing the trade" in this instance.

There has been an unusually large number of weddings this month and as there are quite a number of store openings just now palms and decorative stock are in good demand.

Elaborate wedding decorations are very rare here. People are not educated to it and our florists are not making any efforts to educate them. No class of work is more remunerative to the florist than this. Palms, ferns, etc., are now quite cheap and while they are bound to be

killed by constant use for decorative purposes, they can be made to pay for themselves several times over. Besides the artistic taste of the florist will be displayed and his business advertised by a neat and tasty decoration—a decoration in the true sense of the word.

The Annual State Fair is now being held at the grounds in this city. We hope to see a goodly display of plants, cut flowers, etc. Several good premiums are offered and the inducements to our florist friends to display their goods are greater than for any other line.

The annual meeting of the Society of Minnesota Florists will be held in this city September 13. We hope to see the boys turn out and devise new plans for closer union.

H. Bunyard of Short Hills, N. J. was a caller during the week. FELIX.

Cincinnati.

During the summer months and very frequently during the winter we have not been able to get a quorum to attend the monthly meetings of our florists' society. Saturday evening should have been and was the 71st monthly meeting, and only five out of a membership of over one hundred attended. This is decidedly wrong; very much good will come from these meetings if well attended. It is very little encouragement for a member who is willing to work and prepare a paper to read at these meetings, to find only a half dozen listeners. Our quarters are in the flower market, it does not cost the society a cent for the use of the hall, and there does not seem to be any good excuse why we should not have better meetings.

Trade in this city is gradually on the increase, and our store men all feel pleased with the outlook. Flowers, especially white stock, are very scarce owing to the dry weather, and only tuberoses and balsams are available at this writing. Roses are coming in more freely, but are not strictly first-class yet. The prices fluctuate; the best bring 3, but many sell for much less.

Carnations are improving some, and the best sell for 75 cents per 100 field grown. Many of our growers are now lifting, and before very long we shall be sending out some very handsome blooms from this market. American Beauties from Rosebank have put in their appearance and are good. Lily of the valley will be ready by September 25. The Dutch bulbs, as well as French, are being distributed rapidly to the growers and it will not be long until forcing stock will be with us.

T. W. Hardesty had a very handsome decoration at the Grand Hotel September 4, the occasion being the annual banquet of the Railway Mail Service. The flowers used were mixed shades of gladiolus, intermingled with ferns and palms; the effect was beautiful.

The Hoffmeister Floral Co. say they have been very busy with funeral work and birthday decorations.

Critchell & Co. furnished the yellow buttonhole bouquets for the yellow faction of the Chamber of Commerce, this being election day on 'change.

Geo. Meek of Covington, Ky., says trade is improving across the river, and several wedding decorations in sight.

Mrs. H. L. Garges, L. L. May & Co.'s floral designer, is visiting her mother, Mrs. Magrie, of College Hill.

Mr. Johnston of Marschuetz & Co. was in the city Monday; it is with much regret we learn of the death of Mr. Joe Marschuetz of this firm. G.

A DESCRIPTIVE LIST OF CHRYSANTHEMUMS compiled by O. de Meulenaere, of Ghent, Belgium, has been recently received by us. It contains 99 pages, the names of the varieties being alphabetically arranged on a system similar to that found in the American Florist Co.'s Directory. The list appears a copious one, and the descriptions are very clear; it will be especially useful as an index to varieties of European origin. It is in the French language.

THE BALTIMORE CACTUS JOURNAL, the second issue of which has reached us, is a monthly periodical devoted entirely to the cactus family, published by the Baltimore Cactus Society. It is the only paper in the country devoted to the interests of this class, and should be appreciated by the many fanciers of these odd plants.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

SITUATION WANTED—A No. 1 all round man; successful propagator. References. Address F W, care American Florist.

SITUATION WANTED—With rose grower, by German, 21 years old; 7 years' experience in greenhouse work. Address 2070 Seventh Ave., New York.

SITUATION WANTED—As a mail or express packer, by a single man; 4 years experience. Address C H 88, care American Florist, Chicago.

SITUATION WANTED—Young man wants position as assistant on private place. Understands his business. First-class references. Address T. CONNOR, Port Washington, L. I.

SITUATION WANTED—By a second man, commercial or private place. Well experienced also in landscape gardening. Wages moderate. Best references. F H H, 155 Harrison Ave., Boston, Mass.

SITUATION WANTED—By young man; abstainer. Energetic, as foreman or assistant; commercial or private; cut flowers, bedding, foliage plants and ferns. W. J. POTTER, 638 Main St., Niagara Falls, N. Y.

SITUATION WANTED—By florist and gardener; 16 years' experience; best of references; competent in all branches, outdoor and indoor; private or commercial place. FRANK OTTO, Oconomowoc, Wis.

SITUATION WANTED—By a first-class rose grower and general florist; understands mushroom culture; 20 years' experience. Would take charge of a gentleman's place. Address G F L, care M. D. Stamback, Anchorage, Ky.

SITUATION WANTED—By practical all round florist; German, age 29, single; 15 years' experience; well up in cut flower growing, as well as all kinds of pot plants, etc. Best of references. Address K L, care American Florist, Chicago.

SITUATION WANTED—Before Oct. 1, by a single, practical rose grower and propagator; wants permanent position; east preferred. Good references. Address with full particulars G E D, 114 West Duval Street, Germantown, Pa.

SITUATION WANTED—As gardener, by single man; experienced in propagating and forcing roses, carnations, chrysanthemums, etc. for cut flowers. Would work on shares. Good character. Address D. H. BENSTEAD, 102 East 120th St., New York.

SITUATION WANTED—By sober, steady young man, English, 6 months in this country; 9 years experience; palms, ferns, chrysanthemums, bulbs, etc. Good references. Apply W. WILLIAMS, care W. H. Moon Co., Morrisville, Bucks Co., Pa.

SITUATION WANTED—As general grower and propagator; well up in roses, ferns, cyclamen, palms, etc.; age 28; 12 years' experience; with the best references. Will leave present place of own accord. Address G P, care American Florist.

SITUATION WANTED—By a young man, as foreman or first assistant. Specialist in forcing roses. Sober. First-class references. Liberal wages wanted. Please state wages and other facts. Address H C, care Harmen Coles, 232 Shelby St., Indianapolis, Ind.

SITUATION WANTED—As foreman, by an expert in roses, carnations, violets, bulb forcing, etc. All orchid, palm and fern grower. Thoroughly posted in all the different departments of the trade, in or out-door. Address POSTOFFICE BOX 75, Short Hills, N. J.

WANTED—An experienced florist with small capital, for partner in a town of more than 5,000. Address BUSINESS, care American Florist.

WANTED—80 second-hand heated sash 6x3, three lights. Also 600 feet of 2-inch iron piping. Send estimates to JAMES LAWRENCE, Groton, Mass.

WANTED—For San Francisco, a competent man for a private place; must be fully capable to attend to orchids and exotic plants. State references and wages. Address Z, care American Florist.

WANTED—Young man of 20, with greenhouse or seed experience; must write a good hand, have intelligence, work and ambition. Have opportunity to grow into good position in seed business. Address with particulars and references.

HORTICULTURE, care American Florist.

FOR SALE CHEAP—One water-buck. Address LEWIS TURNER, Kenosha, Wis.

FOR SALE CHEAP—Large second-hand florist's Ice Box, value about \$75. VAUGHAN'S SEED STORE, 88 State Street, Chicago.

FOR SALE—Small florist business in one of the best locations of the South Side, Chicago. Address A. B., care American Florist.

FOR SALE OR RENT—Greenhouse and celery garden. Good business; no competition. A bargain on account of ill health. Address W. J. OLDS, Union City, Pa.

FOR SALE—No. 5 Scollay boiler, used only 3 winters all in good condition; reason for selling, having put in 40-hour steam boiler; price on application. J. E. FELTHOUSEN, Schenectady, N. Y.

FOR SALE CHEAP—Large, new hard wood and glass florist's Refrigerator. Used at World's Fair. Price reduced to \$175. VAUGHAN'S SEED STORE, 146 & 148 West Washington St., Chicago.

FOR RENT OR LEASE—A small greenhouse, good heater water works and sewer in; more land to build on. Good location. Address PAUL, 1008 Washington Ave., Racine, Wis.

FOR SALE OR RENT—Greenhouses, either 15,000 or 30,000 square feet of glass, stocked with best variety of roses. Or will take partner with \$1,000 capital. Address A. T. JACKSON, station X, Chicago.

FOR SALE OR LEASE—Florist business in one of the finest cities and health resorts in Colorado; 5 greenhouses, each 75 by 20 feet, also dwelling; all heated with steam, and well stocked with roses carnations, mums and violets. Trade wholesale and retail. Will sell stock and give long lease on the place, or will sell the whole place on easy terms. Reason for selling poor health. Address VICTOR JOHNSON, box 884, Colorado Springs, Colo.

WANTED.

An experienced florist, with \$1,500 to \$2,000 cash, to take charge of business. I will put in an equal amount of money, and use of land. Money to be used in erecting new greenhouses on my 14 acres; unusually well located, near Oak Park, 8 miles west of Chicago. D. J. KENNEDY, Room 504, 100 Washington Street, Chicago.

NOTICE.

I have bought the Floral Park Greenhouses formerly owned by Victor Johnson & Co., and will connect this business with my Broadway Floral Conservatory. Wanted wholesale catalogues in any style. Send to Block G, West Abriendo Ave., G. Fleischer, prop. I would like to engage Otto Hein in my florist business; can somebody give me his address? G. FLEISCHER, Pueblo, Colorado.

TO WHOM IT MAY CONCERN:

The firm of UHLMANN & HAISCH, of Memphis, Tenn., has been dissolved by mutual consent, and is succeeded by E. UHLMANN, who will carry on the business of florist in all its branches, and who will endeavor to maintain the enviable reputation gained by the late firm for high artistic work, and for elegance and promptness in the execution of all orders.

FOR SALE.

Six (6) greenhouses, two hot water boilers, about 2000 feet 2-inch wrought iron pipe, valves, etc., lot of hotbed sash, frames, benches and about 35,000 flower pots. The entire plant will be sold at a very low cash price, as the whole must be removed off the premises before Sept. 1st. For particulars address L. R. MUNN, Station C, Brooklyn, N. Y.

ORCHIDS OUR SPECIALTY.

The Best and Largest Stock in the World. New & Rare Foliage & Flowering Plants. A grand selection for Stove, Greenhouse and Conservatory. SANDER, St. Albans, England.

Our Mr. A. Dimmock will be pleased to interview buyers or reply in any communication addressed to him at 25 Greenwich St., New York City.

ESTABLISHED

FLORISTS WIRE DESIGNS

MANUFACTURED BY

N. STEFFENS

335 EAST 21ST ST.

NEW YORK.

Roses. Roses. Roses.

Perle, Niphetos, Mermet, Bride, Victoria, Meteor, La France, Albany, Gontier, White La France, Soupert and Bridesmaid, 2 1-2 inch pots, \$5.00; 3-inch pots, \$6.00 per hundred.

AMERICAN BEAUTY, 2 1-2 inch, \$6.00; 3-inch, \$8.00 per hundred.

THIS STOCK IS WELL GROWN AND IN FINE CONDITION.

ESTATE OF M. A. HUNT, Terre Haute, Ind.

10,000 FIRST QUALITY FORGING ROSES.

Fully equal to those sent out the last two years, and perfectly healthy in every respect. Only selected growth from flowering wood used for propagating.

KAISERIN A. V. METEOR, SUNSETS,

MERMETS, SAFRANO, LA FRANCE. 3-inch pots, \$5.00 per 100.

BRIDESMAID, PERLE, BON SILENE, 4-inch pots, \$8.00 per 100.

MME. HOSTE, BRIDES, MME. CUSIN,

J. L. DILLON, Bloomsburg, Pa.

Roses.

1000 MERMETS, 600 NIPHETOS, 1000 BRIDES, 150 TESTOUTS.

All from 2 1/2-inch standard pots. These are in the very best of condition and as large as a great deal of the stock shipped from 3-inch pots.

Per doz. 75c.; per 100 \$5.00; per 1000 \$45.00.

☞ Samples free to intending purchasers.

Pandanus Utilis.

6-inch pots.....\$5.00 per dozen
5-inch pots..... 3.00 per dozen
4-inch pots..... 2.00 per dozen

Cyperus Alternifolius.

3 1/2-inch pots, per doz. 75c; per 100 \$6
2 1/2-inch pots, " 60c; " \$4
2-inch pots, " 40c; " \$3

Grevillea Robusta.

3-inch pots, 10 to 15 inches high, per dozen \$1.00; per 100 \$8.00
2 1/2-inch pots, " 65c; " \$4.00

NATHAN SMITH & SON, ADRIAN, MICH.

ROSES.

Clean, healthy stock.

MERMETS, BRIDES, SUNSETS, NIPHETOS, LA FRANCE, PERLES, MME. WATTEVILLE, BON SILENE, METEOR, PAPA GONTIER.

Strong plants, from 3-inch pots, \$8 per 100; \$75 per 1000.

WOOD BROTHERS, Fishkill, N. Y.

Hybrid Perpetual Roses,

Worked low on the Manetti Stock, offer the best results to the florist, blooming freely and giving plenty of cuttings for propagating quickly. Fine plants for sale by the 100 or 1000, at low rates.

Price Lists to applicants. Address

WILLIAM H. SPOONER, JAMAICA PLAIN, (Boston), MASS.

Rose Plants Cheap.

AM. BEAUTY..... 3-in. \$6.00 per 100; 4-in. \$8.00 per 100
MME. TESTOUT..... " 6.00 " 3 1/2-in. 8.00 " "
K. A. VICTORIA..... " 6.00 " " 8.00 " "
BRIDESMAID..... " 5.00 " " 8.00 " "
BRIDE..... " 4.00 " " 6.00 " "
LA FRANCE..... " 4.00 " " 6.00 " "
MME. HOSTE..... " 4.00 " " "
NIPHETOS..... " 4.00 " " "

☞ Stock strong and healthy. ☞ Samples sent.

BROWN & CANFIELD, Springfield, Ill.

FLORAL DESIGNS

The Cut Flower Worker's Friend. Fine book of 160 pages. Send \$3.50 for it, to J. HORACE McFARLAND, Harrisburg, Pa.

Watch this Space!

We will quote SOMETHING GOOD in the near future.

We sell only to the trade at Wholesale Prices.

Better not let your customers read your Florists' Trade Papers

S. O. STREBY, Lock Box 77, UPPER SANDUSKY, OHIO.

ROSES AND CARNATIONS

For Winter Bloom.

MERMETS, BRIDES, BEAUTIES, PERLES, WATTEVILLE, METEOR, and WABAN.

Clean, healthy stock, from 3 1/2-inch pots, \$6.00 per 100; \$45.00 per 1000.

25,000 FIELD-GROWN CARNATIONS, fine, healthy stock. Send for list of varieties and prices.

FERNS—Adiantum cuneatum, 2 1/2-inch pots, \$3.00 per 100; from 4-inch pots, \$6.00 per 100. Ferns in fine assorted varieties, same price.

JAMES HORAN, Bridgeport, Conn.

Mention American Florist.

ROSES.

2 1/2-inch pots, Per 100 Per 1000
BRIDE..... \$2.50 \$22.50
MERMET..... " 2.50 " 22.50
GONTIER..... " 2.50 " 22.50
SOUPERT..... " 2.50 " 22.50
WHITE LA FRANCE..... " 2.75 " 24.00
SUNSET PERLE..... " 2.80 " 25.00
And all other standard varieties, 2 1/2, 3 1/2 and 4 1/2-inch pots. Write for prices on what you need. TERMS CASH WITH ORDER.

THE NATIONAL PLANT CO., Dayton, O.

ROSES.

Mermets, Cusins Wattevilles, Hoste, Meteor and La France, \$3.00 per 100. Strong American Beauties, \$5.00 per 100; \$40.00 per 1000. 500 at 1000 rates.

☞ Special prices on quantity. Let me price your lists. Cash with order.

ROBERT F. TESSON, West Forest Park, St. Louis, Mo.

ROSES.

Surplus stock; clean, healthy plants, from 2 1/2 and 3-inch pots. PERLE, SUNSET, NIPHETOS, BRIDE, MERMET, M. NIEL AMERICAN BEAUTY, LA FRANCE, ALBANY, THE QUEEN, MME. WATTEVILLE and GUILLOT.

Fred. Dorner, Fred. Heint and Victor Pelargoniums. Samples free to intending purchasers, and the very lowest prices on application.

JOSEPH HEINL, Jacksonvill, Ill.—When writing mention the AMERICAN FLORIST.

Marie Louise Violets.

5000 strong clumps, free from disease, for cash with order \$5.00 per 100; \$40.00 per 1000.

GEO. N. SAYLES, 40 Bradley St., Watertown, N. Y.

THE AMERICAN FLORIST

Subscription \$1.00 a Year. To Europe, \$2.00.

Advertisements, 10 Cents a Line, Agate; Inch, \$1.40; Column, \$14.00. Cash with Order.

No Special Position Guaranteed.

Discounts, 6 times, 5 per cent; 13 times, 10 per cent; 26 times, 20 per cent; 52 times, 30 per cent. No reduction made for large space.

The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to those lines ONLY. Please to remember it.

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

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

Address THE AMERICAN FLORIST CO., Chicago.

Coming Exhibitions.

- CHICAGO, Nov. 3-11. Chrysanthemum show Hort. Society of Chicago. W. C. Egan, Sec'y, 620 Dearborn Ave.
NEWPORT, R. I., Nov. 6-8. Chrysanthemum show Newport Hort. Society. Alex MacLellan, Sec'y, Ruggles Ave.
BOSTON, Nov. 6-9. Chrysanthemum show Mass. Hort. Society. Robt. Manning, Sec'y, Horticultural Hall.
PITTSFIELD, MASS., Nov. 6-9. Chrysanthemum show Berkshire County Gardeners' and Florists' Club. W. M. Edwards, Sec'y, 103 Howard St., Pittsfield.
ST. LOUIS, MO., Nov. 6-9. Chrysanthemum show St. Louis Florists' Club. E. Schray, Sec'y, 4101 Pennsylvania Ave.
INDIANAPOLIS, IND., Nov. 6-10. Chrysanthemum show Society of Indiana Florists. W. G. Bertermann, Sec'y, 37 Massachusetts Ave.
PHILADELPHIA, PA., Nov. 6-10. Chrysanthemum show Pennsylvania Hort. Society. D. D. L. Farson, Sec'y, Horticultural Hall, Broad St.
LOUISVILLE, KY., Nov. 6-10. Chrysanthemum show Louisville Florists. H. Nanz, Sec'y, 582 Fourth Ave.
DENVER, COLO., Nov. 7-10. Chrysanthemum show Denver Florists' Club. Adam Kohankie, Sec'y, L.B. 375, So. Denver, Colo.
PROVIDENCE, R. I., Nov. 8-10. Chrysanthemum show Rhode Island Hort. Society. C. W. Smith, Sec'y, 61 Westminster St.
MONTREAL, NOV. 12-14. Chrysanthemum show Montreal Gardeners' and Florists' Club. Fred Bennett, Sec'y, 62 Aylmer St.
BALTIMORE, NOV. 12-17. Chrysanthemum show Gardeners' Club of Baltimore. Wm. McRoberts, Jr., Sec'y, 304 W. Madison St.
WORCESTER, MASS., NOV. 13-15. Chrysanthemum show Worcester County Hort. Society. Edw. W. Lincoln, Sec'y.
TORONTO, ONT., NOV. 13-16. Chrysanthemum show Toronto Gardeners' and Florists' Ass'n. A. H. Ewing, Sec'y, 85 Carlton St.
SPRINGFIELD, MASS., NOV. —. Chrysanthemum show Hampden County Hort. Society. W. F. Gale, Sec'y, 23 John St.
MILWAUKEE, WIS., NOV. —. Chrysanthemum show Milwaukee Florists' Club. A. Klokner, Sec'y, 219 Grand Ave.
HAMILTON, ONT., NOV. —. Chrysanthemum show Hamilton Agric. Society. Walter H. Bruce, Sec'y.

[Secretaries will confer a favor by supplying dates as soon as decided upon. We shall be glad to know of any further shows decided upon and not included in our list, even if exact date is not yet determined.]

Caution.

The man who has been attempting to pass forged checks on florists in various parts of the country has been heard of in Philadelphia and New York, and eastern florists should be on their guard. During the absence of the management of the FLORIST at the convention he secured the insertion of two advs. purporting to be from S. Mount & Co., of St. Louis, and stating they wished to buy chrysanthemums and palms. We learn that he has since made use of these advs. as a part of his scheme for passing forged checks. He would order plants on behalf of Mount & Co., tender a check to which he had attached their name, for a larger amount than the bill called for and try to get the excess in cash. Whoever he approaches in future should put the authorities on his track.

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

CORBREY & McKELLAR,

Wholesale and Commission Florists,

Phone Main 4508.

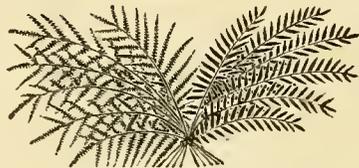
64 & 66 Wabash Ave., CHICAGO.

We are prepared to fill your orders with First-Class Flowers. Give us a trial order.

FOR DECORATING, NOTHING CAN EQUAL ASPARAGUS PLUMOSUS NANUS. CUT STRINGS 8 TO 12 FEET LONG, 50 CTS.

Shipped in large or small quantities to any part of the country. Orders by mail, telegraph or telephone.

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VISITED CHICAGO.—A. H. Goodwin, J. Comont, H. A. Johns.

IT IS EXPECTED that nasturtium seed will be scarce again this season.

VISITING NEW YORK: S. F. Willard of Wethersfield, and A. Crane of Florida.

A. H. GOODWIN of the Northrup, Braslan, Goodwin Co. has returned from Europe.

EUROPEAN contract orders for spinach seed are reported 50% short, but most of the foreign houses have plenty to sell.

MR. J. COMONT, representing Carter, Dunnett & Beale of London, is making his annual fall trip through the United States.

HENRY A. SALZER returned from Europe September 2. He does not consider the outlook for spring business of 1895 a favorable one.

MRS. J. R. FULLER of Floral Park, N. Y., sister of Mr. John Lewis Childs, died September 10 of pneumonia after an illness of less than a week's duration. Mr. Fuller has also been seriously ill for over five weeks and is hardly expected to live.

New Greenhouses.

QUEENS, N. Y.—Cottage Gardens, five new houses, short slope to south.

ONEIDA, N. Y.—J. M. Boden, West street.

STOCKBRIDGE, MASS.—John H. Choate, two new houses and extensive alterations; construction by Thos. W. Weathered's Sons.

FAIR HAVEN, CONN.—Smith Bradley, one house 80x20.

DUBOIS, PA.—C. E. Bostwick, two houses, each 100x20; one house 55x14.

YORK, PA.—Anthony Pike, two 100-foot houses on Linden avenue.

BETHEL, CONN.—George Beard, one 50-foot house on Center street.

ERIE, PA.—H. A. Neimeyer, three large houses.

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BULBS. Best Quality.

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Freesias, 1st size.	.60	5.00

Full line Dutch Bulbs. Write for prices.

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" 9-11	"	5.50
" 11-12	"	8.00
SPECIOSUM Rubrum, 8-9	"	5.00
" 9-11	"	8.00
" 11-13	"	9.00
" Album, 8-9	"	8.00
" 9-11	"	10.00
LIL. LONGIFLORUM, 7-9	"	4.00
" 8-10	"	5.00

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English Milltrack Mushroom Spawn, per lb 10c; per 100 lbs. \$8.00.		

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Special and Hardy Water Lilies of all colors.

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Nice plants from open ground, \$1.00 per 100.

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500,000 Bulbs in stock.

SPIRÆA COMPACTA GRANDIFLORA.

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200 FIGUS ELASTICA, 24 to 50 in., \$6.00 per dozen

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3 Large PHILODENDRON PERTUSUM, one having two fruits on, from \$7.00 to \$10.00 each.

10 Large LATANIA BORBONICA, with 10 to 15 leaves, fine plants, \$8 to \$10 each.

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To relieve my over-crowded private greenhouse, a fine collection of Palms.

J. C. EASTON, La Crosse, Wis.

Effect of Electric Light on Plants.

ED. AM. FLORIST:—Is electric light injurious to roses planted in benches for winter blooming? A light has been placed near one of my houses, and I wonder what effect it will have on the plants.

T. K.

We referred the above inquiry to Prof. L. H. Bailey of Cornell University, Ithaca, N. Y., who has conducted a series of experiments as to the effect of electricity on vegetation, and he replies as follows:

"There have been no experiments made, so far as I know, to determine if the electric light is injurious to roses. We are projecting such an experiment the coming winter, and our roses are now upon the benches and the light will be put in soon. I have made a careful series of investigations upon the influence of electric light upon plants, the results of which are published in Bulletins Nos. 30, 42 and 55. We find that in general flowers are somewhat earlier under the light, somewhat brighter in color and often with longer stems. In every case the light should be surrounded by a glass globe or else it should hang above the greenhouse roof. From what I know of the behavior of other plants under the light, I should expect that roses would not be injured and that they might be benefited if an arc light were hung above the roof."

Worms Eating Canna Leaves.

ED. AM. FLORIST:—Referring to the note by Mr. F. R. Pierson, would say that we also have been troubled by worms and caterpillars similar to those mentioned by your South Carolina correspondent. These worms or caterpillars eat a hole the size of 1/4 to 1 1/2 inches through the leaf before it has unrolled. I have not been able to catch it or find any traces of it. The damage is done before the leaf has grown up enough to unfold.

F. C. BARTELS,

Manager Mendenhall Greenhouses.
Minneapolis, Minn.

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Carnations.

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McGowan, Portia, \$5.00. Hinz's White, \$4.00.
Daybreak, \$8.00. Silver Spray, \$7.00.

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ARECA LUTESCENS THE MOST GENERALLY USEFUL PALM

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25,000 FIELD GROWN CARNATIONS

Nice healthy stock of the standard tested sorts in the Carnation belt.
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P. S.—Also fine field clumps of the peerless Violet Lady Home Campbell.
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Ready now. Write for prices. No orders for less than 100 plants accepted.

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GOOD FIELD PLANTS — OF — Sweetbrier Carnation.

\$15.00 PER 100.

Other varieties on application. . . .

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Strong and healthy plants, pot-grown, in 3-inch pots.

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Between Sept. 1st and Dec. 1st I will have a MILLION or more plants to sell. They can not be offered in competition with cheap grown seed, but quality considered, are remarkably cheap at the price.

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All my own growth of 1894. Half pkts. of any of the above 50c. Please send money orders or registered letter. Cash with order.

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READY NOW FOR PLANTING.

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By mail, 75c. per 100;
Free by express, \$5.00 per 1000.

Liberal discount will be allowed on large orders.
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(English.)

NEW IMPORTATION OF SEPT. 8th. Strictly A1, per 10 lbs. \$1.20; 100 lbs. \$8.00.

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Strong stock, in bundles of 250. Per 1000, \$5.00; 2,000 for \$9.50.

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Every bag warranted pure bone. Per bag of 200 lbs., \$4.25; 1,000 lbs., \$17.00.

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Plants in bloom, all sizes, at lowest prices.

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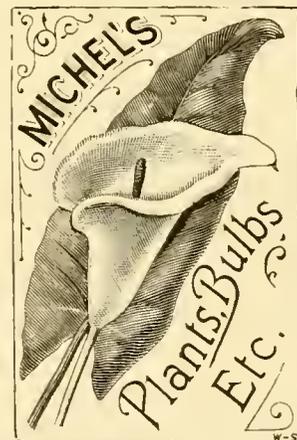
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JAMES LAWRENCE, Groton, Mass.

Cleveland.

In our notes of August 9 stating that J. C. Gooding had brought suit against H. S. Gordon for wages due him we find we were misinformed. The facts are Mr. Gooding brought suit for the unexpired term of his contract, which contract Mr. Gordon claimed he was at liberty to cancel at any time as per clause contained therein.

There are some very good Daybreak carnations coming into the market now, cut from the new plants. Roses coming in from new stock are improving in quality every day and a week or two of cool weather will give us first-class flowers.

Wamelink Bros. are cutting some very good Beauties, but with short stems.

In summing up the value of business done the past summer we find instead of being exceptionally dull as some centers of trade report, that it has been an improvement on the past two years. True it is there has not been any calls for large amounts of flowers at one time, but there has been a greater number of small cash orders which tends finally to swell up a larger amount of business done in the end, and there are not many of us who object to the frequency of the small cash sales ranging from fifty cents to one dollar.

Looking through the greenhouses of J. M. Gasser everything is found to be coming along nicely and promising an abundance of bloom for the coming fall and winter campaign. Mr. Gasser has two separate establishments; one large range of houses on Lake avenue, at the city limits, devoted entirely to roses, and the other, located on Rocky River, five miles further west, for general stock, the two combined forming one of the largest if not the largest range of houses in the state, the whole devoted almost exclusively to the growing of cut flowers. There are sixteen houses at Lake avenue, ranging in size from 100 to 250 feet, with an average width of twenty feet. Solid beds are used, the foundation being common tiling running across the beds and placed side by side compactly the entire length of bed. On this is placed about six inches of soil. The roses are grown an average of three years, when they are renewed. The varieties grown are Bride, Bridesmaid, Beauty, Hybrids, Meteor, Wootton, Hoste, La France, Perle, Watteville, Cusin and Niphotos; Bridesmaid and Bride taking the lead in point of numbers.

There are fifteen large houses at Rocky River, four of them devoted to chrysanthemums and five to carnations. These are also grown in solid beds with tiling every foot, which affords sufficient drainage. L. F. D.

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Bulbs, Seeds and Requisites.

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If you had gone you would then understand why the Certificate was awarded to Bayersdorfer's exhibit of Florists' Supplies, and why that section of the exhibition hall was crowded almost to suffocation with visitors and customers. The same quality of goods shown there is what we use to fill all our orders.

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Everything needed in a complete outfit.

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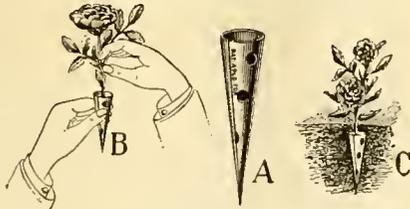
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NATURAL GAS MADE GLASS,

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FRANGIS' METAL STEMMING POINTS.



Latest Device for Stemming Cut Flowers without Toothpicks and Wire.

Will keep set pieces fresh longer, as flower stem is entered deep in the moist moss. Manufactured by the Novelty Point Works in 5 sizes, from 1/8 to 1/2 inch in diameter.

In Boxes of 1000 Points.

SIZE No. 1.....60 cts. SIZE No. 3.....80 cts.
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SIZE No. 5 (largest), box of 250 points...32 cts.

PATENTED JULY 11th, 1893.
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Quality Unexcelled. Prices Reasonable. Catalogues Free.

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Address all correspondence to 1 Music Hall Place.
Manufacture THE BEST LETTERS in THE MARKET.
Sizes 1 1/2-inch and 2-inch, \$2.00 per 100. Patent fastener with each letter.

With orders for 500 letters we give away a nicely stained and varnished box. See cut in next week's American Florist.

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This preparation is a sure destroyer of the Scale, Woolly Aphis and Insect Pests of any and all descriptions. It may be as freely used in the conservatory, garden and greenhouse as in the orchard or vineyard. It is non-poisonous and harmless to vegetation when diluted and used according to directions. It mixes instantly with cold water in any proportion. It is Safe, Sure and Cheap. No fruit grower or florist should be without it.

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And Highest Award Wherever Exhibited.
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2-inch Letters, \$2.50 per 100.
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For other styles of Letters, Emblems and Designs, send for catalogue and free sample.

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Foreign Notes.

M. Latour-Marliac has produced another of his beautiful hybrid nymphæas, which he has named N. Robinsoni. It is rather larger than Laydekeri, rose, deepening toward the center. The rose color is finely spotted throughout with white.

A new and distinct disa, which has been flowered at Kew, is D. nervosa. The leaves are slender, narrow, and light green in color. It bears a raceme of delicate flowers, the peduncle crimson, the petals light pink, with a narrow line of deep rose down the center. The other parts of the flowers are white, lined with pink.

It is reported that the lily disease is troubling auratum very badly in England this year, and also speciosum in variety, many of the plants dying off wholesale. The disease appears to come on very suddenly, the plant appearing in perfect health one day and nearly dying the next. On investigation the bulb is found to be rotten.

Among plants recently receiving a first-class certificate from the Royal Horticultural Society was a new orchid hybrid, Lælio-Cattleya Broomfieldensis. The parents were Cattleya aurea var. x Lælia præstans. The sepals and petals are very broad, rosy purple in color. The influence of C. aurea is only seen in the labellum, which is an intense deep velvety crimson purple with deeper veins toward the base, the throat being veined with gold.

Begonia Rajah is a showy and distinct type recently exhibited in England. The leaves are kidney shaped, and are described as an intense brown, quite free from any tint of purple, veined with deep green.

A new adiantum, which it is said may be a hybrid from A. æmulum and A. fragrantissimum, is A. Hemsleyanum. It is somewhat like A. Williamsii, but is lighter and more graceful in shape, the foliage being light green and irregular in shape. Another new fern is Pteris biauurita argentea, which is not unlike P. argyrea, but with very firm leathery foliage. The color is deep green, with a silvery line through the pinnae.

WHENEVER you want anything pertaining to the trade, and do not find it offered in our advertising columns, write to us and we will take pleasure in assisting you to find what you want.

Standard Flower Pots.

10 per cent. off for cash with order. Special discount on large orders. We carry a large stock on hand of good strong pots.

PRICE LIST OF STANDARD FLOWER POTS.

1 3/4-inch pots, per 1000	\$ 3.00	6-inch pots, per 1000	\$22.00
2 "	3.25	7 "	35.00
2 1/4 "	3.50	8 "	50.00
2 1/2 "	4.00	9 "	75.00
3 "	5.00	10 "	100.00
3 1/2 "	7.25	11 "	150.00
4 "	9.00	12 "	200.00
4 1/2 "	13.80	14 "	400.00
5 "	16 "	16 "	75.00

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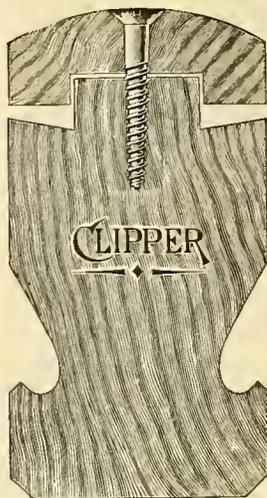
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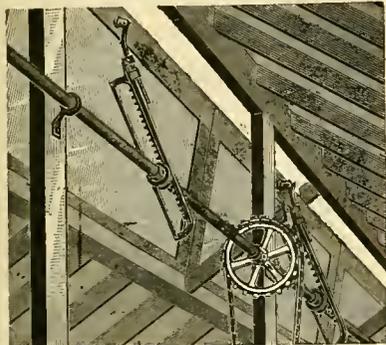
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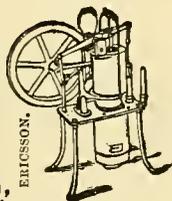
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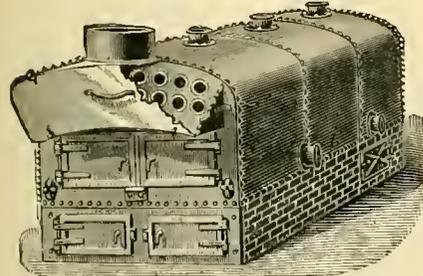
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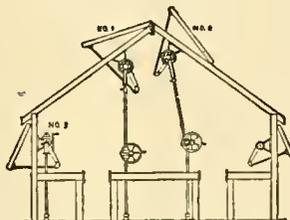
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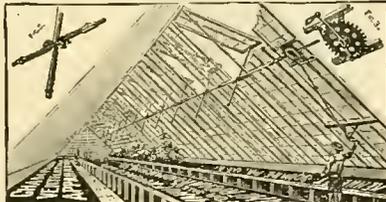
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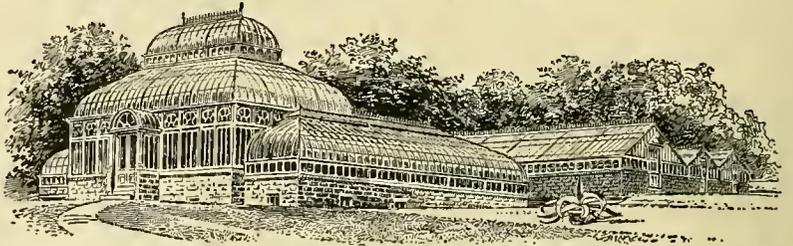
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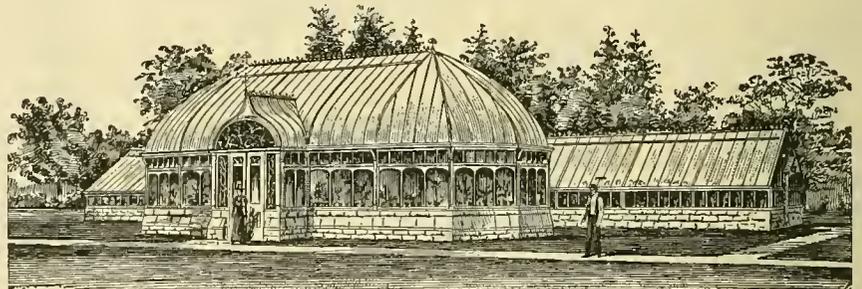
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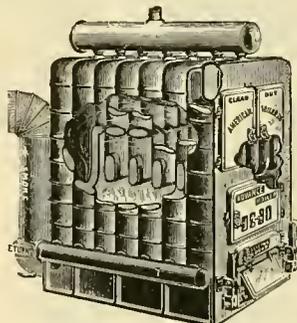
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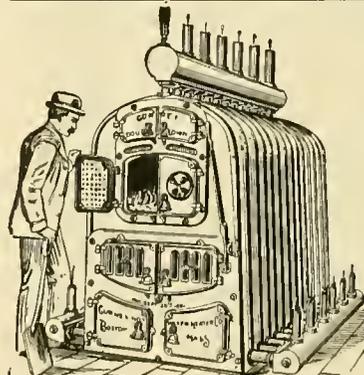
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THE AMERICAN FLORIST



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Vol. X. CHICAGO AND NEW YORK, SEPTEMBER 22, 1894. No. 329

THE AMERICAN FLORIST

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SOCIETY OF AMERICAN FLORISTS.

J. T. ANTHONY, Chicago, president; ROBERT KIFT, Philadelphia, vice-president; WM. J. STEWART, 67 Bromfield St., Boston, Mass., secretary.

The new officers to be installed Jan. 1, 1895, are: EDWIN LONSDALE, Chestnut Hill, Philadelphia, president; E. C. REINEMAN, Allegheny City, Pa., vice-president; WM. J. STEWART, Boston, secretary; H. B. BEATTY, Oil City, Pa., treasurer. The 11th annual meeting will be held at Pittsburg, Pa., August, 1895.

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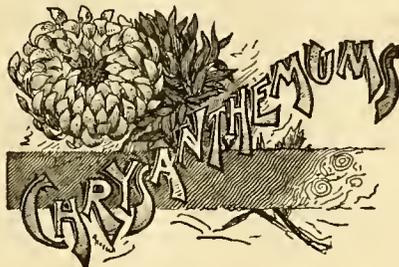
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SING SING, N. Y.—Herman Bradshaw is building four greenhouses, each 12x100.

YORK, PA.—Augustus Doll, who came here from Manchester, Pa., last spring has built five houses each 22x100, heated by steam.

WAYNESBORO, PA.—Henry Eichholz, formerly of Bellevue, Pa., has leased for a term of years the greenhouses built by the late J. F. Nitterhouse.

SAN FRANCISCO.—The premium list for the tenth semi-annual exhibition and chrysanthemum show of the California State Floral Society to be held November 15, 16 and 17, has been issued and copies may be had on application to the secretary of the committee of arrangements, Mrs. T. L. Walker, 2549 Piedmont avenue., Oakland, Cal.



Chrysanthemum Notes.

The crown buds are now making their appearance with a grand rush, and should be taken as fast as they appear, with the exception of some varieties which are universally known to produce better blooms from terminal than from crown buds, such as Harry E. Widener, Kioto and many others. We have often been asked to compile a list of varieties that should be grown to crown buds, and another list of those that should be allowed to grow to terminals, but that would hardly be possible. The same variety often grows entirely different with some growers from what it does with others, and where some excellent growers advise the taking of crown buds of a variety others equally as good stand ready to say that the terminal will produce a much better finished bloom, hence the publication of such a list might lead to a great deal of controversy, for location and mode of culture have very much to do with the selection of the bud. There is one thing, however, that our experience has led us to believe can be laid down for all to follow, and that is, if you want to retain the bright color in the reds and bright pinks they are far better grown to terminal buds, for the crown bud takes so long to develop that they will fade. The best way for a grower who has had but little experience with crown buds is to grow every variety to both crown and terminals and mark each plant with tag or in some other manner, and then when they bloom he will know which is the better bud for him to take in his locality and under his mode of culture.

It is time now to look up the liquid manuring, and if the plants were not mulched to begin light feeding, and as the buds begin to swell they will demand more and more. If it is the intention to use chemicals procure them now from as responsible parties as you can and get as pure an article as possible, for adulteration is practiced, and the chemicals themselves vary; the same article from different parties will often vary greatly, and sometimes damage will be done from using too strong a mixture. A word here as to their use. Be careful always that they hardly discolor the water and never use them on the principle that if a little does a little good more will accomplish a great benefit. Of the chemicals that are used

in chrysanthemum culture the following can be said: Nitrate of soda and nitrate of potash are both good cell openers and very stimulating, and will produce a strong growth with heavy foliage, but our experience so far has been that they are of very little use in building the bloom. Phosphoric acid is what is wanted for that purpose and the fertilizer that is richest in that ingredient and easiest applied is bone in its various forms. These two chemicals can be used to advantage from now to about the 15th of October; twice a week is often enough. A little dissolved bone can be used now in the liquid manure unless the ground was given a top dressing of bone. Many growers use this in their liquid manure and they say that very appreciable results have been obtained. Sulphate of ammonia is another chemical that is often used, and the effect of its application can be discerned very quickly, but great care must be taken to use a weak solution or the plants will be burned. This chemical is said to affect the color cells of the flower and foliage, which will brighten very quickly after the application. Again be careful of the reds and pinks, for this chemical will scorch the petals of these shades. Four ounces of nitrate of soda and nitrate of potash and two ounces of sulphate of ammonia to thirty gallons of water can be safely used. But animal manure will be found necessary to produce an A1 bloom. Cow manure will be the mainstay, but sheep manure makes an advisable change if it can be procured.

Inquiries are often made as to how to construct a cheap liquid manure tank. We have used one for some time that is very easily made which causes little trouble and the total cost is less than five dollars. Get an empty molasses hogshead and saw it in two; this can be bought at any grocery store for about a dollar. Place one half above the other on a staging, or what is better set one tub in the cellar and the other on the ground floor. Get from the wire worker two small pieces of wire netting, one 1/4 inch mesh and the other 1/2 inch mesh, about two and a half feet long and two feet wide. Make two frames to conform to the sides of the tub at about six and ten inches from the side and tack the wire netting to them. The frame to which the 1/2 inch netting is fastened will have to be strong enough to hold back the weight of the tubful of manure and some small strips will have to be nailed behind the front frame so as to keep it in position. This will leave fully three-fourths of the tub to be filled with whatever kind of manure may be desired, and by pouring the water into the back side of the tub it will soak through the manure and can be drawn by a faucet or siphoned into the lower tub. Here it can be diluted to the desired strength and whatever chemicals are used can be added. It can then be

pumped onto the benches or put on in watering pots. If the upper tub is set on the floor of the head house it will be found advisable to place a piece of zinc with turned edge under it, for when the tub is filled, unless carefully done, it is apt to overflow.
ELIJAH A. WOOD.



TO PREVENT RUST.—Dissolve one pound of sulphate of copper in two quarts of ammonia in a 2-gallon jar. When dissolved add another quart of ammonia and stir well. [The liquid can be kept in this form for some time and used as needed.] Add a pint of this solution to a barrel of water and syringe the plants with a force-pump every two weeks. And don't let the time for spraying pass without attending to the operation.

Carnation Notes.

If your plants are started it is time to get all the shading off the houses, as they will want all the sunlight they can get from now on to make a good growth for the Christmas crop. It may seem like a long time until Christmas, but it generally gets on us quicker than we anticipate, so it is well to take time by the forelock and prepare as soon as the plants are started.

Quite a large majority of the plants this season are not as large as usual and it will be well to give them a little liquid manure once a week to help them along, but be very careful not to keep the soil too wet, or the plants will get sickly and die off. Rust is bad enough, but a water sick carnation is a great deal worse; there seems to be no remedy for plants that have been overwatered.

Rust seems to have been pretty well conquered, for I have been to a number of places where they had rust pretty bad last season and have none now, but that is no reason why we should cease our vigilance; it is much easier to keep a lookout for it and destroy it at once than to allow it to get a hold and then fight it. There has unquestionably been a lot of unnecessary noise made over the rust, but we are better off without it, and as it is so easily kept in check we should all unite in destroying it.

Ventilation, syringing and fumigation should all be carefully attended to at this season of the year, and as soon as possible have the plants all neatly tied up and keep the soil stirred occasionally, especially if you are using manure water. It is also well to remember that carnations and weeds are not congenial neighbors, and the houses should be kept perfectly clean, not only clean of weeds, but all manner of rubbish. The plants seem to do better in a nice clean house.

If the plants have been brought in with buds on they will be filled with side buds, and very often these side buds dry up on the stem, so it is policy to go over the houses and disbud all of them; this gives one good flower without taking so much vigor from the plant. As a rule the first lot of bloom does not amount to much, but if the plants are disbudded they will compare favorably with the later crops. It is well to start in right, and especially for a beginner, or in sending to a new firm; if your first lot of flowers reaches them in good shape it will pay for a little extra trouble to get them good; first impressions count for much in making a deal for the season.

Plants that are out in the field yet will need some watching so that they are not caught by the frost, for while it does not seriously injure them it does hurt them to some extent, and they are better inside before it comes. Plants that are wanted for wintering over in cool frames for spring sales can be left out in the field until the ground begins to freeze slightly, and they will be all the better for it, but if they are wanted for flowers they should be housed now.
ALBERT M. HERR.

American Carnation Society.

Following is the schedule of premiums to be awarded at the carnation exhibition which will be held in conjunction with the meeting of the American Carnation Society at Boston, Mass., beginning the third Thursday in February, 1895 and continuing two or three days.

Class A.—Vases containing 100 blooms each as follows:

	1st.	2d.	3d.
White	\$10.00	\$7.00	\$5.00
Pink, (light) not to be darker than Wm. Scott	"	"	"
Pink, (dark) not to be lighter than Tidal Wave	"	"	"
Scarlet	"	"	"
Crimson	"	"	"
Yellow	"	"	"
Variegated	"	"	"

Class B.—Vases containing 50 blooms each as follows:

	1st.	2d.	3d.
White	\$5.00	\$4.00	\$3.00
Pink, (light) not to be darker than Wm. Scott	"	"	"
Pink, (dark) not to be lighter than Tidal Wave	"	"	"
Scarlet	"	"	"
Crimson	"	"	"
Yellow	"	"	"
Variegated	"	"	"

Class C.—Vases containing 12 blooms each as follows. First premium only, no second or third. \$2.00.

WHITE.

- Lizzie McGowan, Silver Spray,
- Mrs. Fisher, Puritan,
- Uncle John, Any other white.

PINK (LIGHT).

- Grace Wilder, Wm. Scott,
- Diaz Albertini, Edna Craig,
- Daybreak, Adelaide Kresken,
- Sweetbrier, Ada Byron,
- Nicholson, Annie Pixley,
- Any other light pink.

PINK (DARK).

- Tidal Wave, Richmond,
- Thomas Cartledge, Mrs. Hitt,
- Any other dark pink.

SCARLET.

- Portia, Stuart,
- Hector, E. G. Hill,
- Fred Dorner, Garfield,
- Any other scarlet.

CRIMSON.

- Jacqueminot, Anna Webb,
- Ferdinand Mangold, Creole,
- Wabash, Crimson Coronet,
- Pride of Kennett, Any other crimson.

VARIEGATED.

- J. J. Harrison, Helen Keller,
- Chester Pride, Americau Flag,
- Nellie Lewis, E. A. Wood,
- Stanley, Orange Blossom,
- Western Pride, Dr. Smart,
- Any other variegated.

YELLOW.

- Buttercup, Bouton d'Or,
- Goldfinch, Golden Triumph,
- Any other yellow.

Class D.—Pot plants, the pots not to exceed seven inches in diameter and one plant in a pot. First \$5.00; 2d. \$4.00.

White	Best six plants.
Pink (light)	"
Pink (dark)	"
Scarlet	"
Crimson	"
Variegated	"
Yellow	"

Twelve distinct varieties.—1st. \$10; 2d. \$8; 3d. \$6.
Twenty-five distinct varieties.—1st. \$20; 2d. \$15; 3d. \$10.

Certificates of merit will be awarded all new varieties of distinct merit.

A certificate will be awarded to the vase of carnations showing the best culture on exhibition.



Nitrate of Soda and Piping.

What is the proper proportion of nitrate of soda to water for a stimulant for forcing roses and how often applied?

I have a rose house heated by 5 runs of 4-inch pipe, open gravity system (Hitchings). Would it take double that amount of 2-inch pipe to heat the same house under pressure, say 10 lbs.? W. P.

In reply to the question as to what is the proper proportion of nitrate of soda to use for forcing roses would say that for young plants planted the current season at the present time I would not advise using more than at the rate of one lb. of nitrate of soda to fifty gallons of water and this applied not oftener than twice a month. For roses that have been carried over and need more stimulant if they are in strong active growth take at the rate of one and one-half lbs. to fifty gallons of water, and for all classes of plants after the first of March when the soil is well filled with active working roots this last proportion is about a fair amount, although in some varieties you may go as far as two lbs. to fifty gallons, but never exceed that as it does more harm than good to do so. This is an exceedingly strong fertilizer and if used too freely causes soft, incipient growth and will often fetch the leaves off in advance of the time of maturity, sometimes will even injure the young growth, but applied judiciously is certainly a valuable auxiliary as it supplies some of the food necessary for plant life in a very easy manner as it dissolves so readily in water.

The soil should be somewhat on the dry side before applying it, not enough to be dust dry but just in a free dry condition, so that it feels a little firm to the pressure, then at the proportion given above give a good liberal soaking. This is best done early in the morning so as to allow any surplus moisture to dry off before night and the ventilators should be opened as soon as possible so as to allow a free circulation of air through the house to modify any injurious effect it may have on the foliage on which it might fall.

In reference to the question regarding the rose house heated by five rows of 4-inch pipe open gravity system would say that under ordinary circumstances with a pressure of say ten pounds seven rows of 2-inch pipe ought to keep the house as warm as the five above, although it might be advisable to make it eight rows of 2-inch gas pipe; this would insure giving him an ample amount as above. The pipes could be run at the same grade as the cast iron pipes now in but should have air cocks at the end of the pipe, in other words, at the highest point, so as to let off any air that might collect there.

JOHN. N. MAY.

WHENEVER you want anything pertaining to the trade, and do not find it offered in our advertising columns, write to us and we will take pleasure in assisting you to find what you want.



MR. ALBERT M. HERR'S GREENHOUSES, LANCASTER, PA.

Miscellaneous Seasonable Hints.

Tulips will now be arriving and those that are wanted for very early forcing should be boxed at once. The success of early forcing depends on the quantity of roots they have. Without a good root growth it is impossible to obtain good flowers with any stem to them. I have given my idea of what a bulb box should be more than once in these columns, but whatever size they are let them be uniform in height, breadth and depth, and three inches is deep enough. A rich prepared compost is not at all necessary for tulips, hyacinths or narcissus. Any soil that will allow the water to pass freely through will do, soil that has been thrown out from carnation benches would be just the thing. Don't place the boxes on the ground, but put down a few old strips of boards to keep the bottom of the box an inch off the ground. When you are bringing the boxes in to force you will find the benefit of this. After the flats are placed out of doors, or rather where they are to remain until forced give them a most thorough watering; you cannot over do it. When the water has soaked in shake a very thin layer of straw, or what is just as good, the buckwheat husks in which the bulbs are packed. This thin layer of some such material is important, for it allows the soil covering the bulbs to break freely away from the surface of the soil in which the bulbs are planted. All that remains to be done now is to throw on three inches of soil. If the fall rains come along regularly no further watering is needed, but if we get a long dry spell in October and November which we sometimes do then the beds must have a good soaking every week or ten days. In this latitude it will be necessary when hard winter weather comes to further cover the beds with 4 or 5 inches of long straw manure or leaves. Hard freezing does not hurt hyacinths,

tulips or the hardy narcissus, but it is very inconvenient to get at them when frozen, and I have distinctly noticed in a flat of tulips that where one-half of the bulbs were frozen tight and the other end not that although the whole lot came along and threw up fine flowers those that had never been frozen were 5 or 6 days earlier to flower. Those I intended for the Easter crop I should cover less and prefer to have the frost go into the covering of earth a little, for it would keep the bulbs from getting too long necked. Some of the tulips, Joost Von Vondel, Keizer Kroon and Yellow Prince and some others will if kept too warm grow up a great length and when forced will flop over in every direction, which makes them unsalable.

The named Dutch hyacinths and the pans of tulips and narcissus I prefer to put in a frame which can be surrounded by some protecting material and can if necessary be covered with sash. If hard freezing gets in among the pots and pans you will have a large percentage of them broken. The frame in which you set them should have a good dry surface and one where water won't stand at any time. For several years latterly there has been a great increase in the demand for a potted plant at Christmas and Easter. People buy them for their own house, and thousands are bought for presents. You may say that at Easter the plant has completely knocked out the card once so popular. You want plants with a price to suit the small pocketbook as well as the large, and the great bulk of your sales will be from 25 cents to one dollar. Here is where the pots and pans of bulbs just fill the bill. The variety is very limited for Christmas, but you can have Romans and paper white narcissus then to perfection. The pans will outsell the pots wherever offered: an 8-inch pan with a dozen or fifteen well flowered tulips will please anyone, while an 8-inch pot of the

same would be an unwieldy object. The 6, 7 and 8-inch pans are the most useful.

Most of the large growers will have given their bulb orders long ago, but many smaller growers have yet to purchase the bulbs, and to them I submit a brief list of varieties that I have found to sell best as well as force best. The miniature hyacinth is excellent for growing in a 6 or 7-inch pan; makes a perfect little truss and is very cheap. In named hyacinths it is cheaper to buy the best bulbs; you will more than make up the few cents difference in the bulbs when they are sold. I buy the hyacinths in this proportion of colors: 2 white, 2 red and 1 blue; that's about as the popular taste goes. In narcissus there is nothing equal to the Von Sion. It is indispensable both for cut flowers and for pans. If you must have tulips at Christmas there is only the Duc Van Thol that can be had in flower at that time, and they are poor things. People are not looking for tulips so early and they sell poorly. By the middle of January you can have the standard sorts in flower; here is what I buy: For white La Reine and White Pottebakker; scarlet, Vermilion Brilliant and La Belle Alliance; yellow, Yellow Prince and Chrysolora; pink, Rose Grisdelin and Cottage Maid. If you want striped, Joost Von Vondel, a fine flower, and Keizer Kroon, a showy red and yellow flower. For March and April Murillo, a beautiful double white and Tournesol, red and yellow, are both fine. The above will be all the varieties that you will want, and don't grow too many for cut flowers. WM. SCOTT.

Worms on Cannas.

ED. AM. FLORIST:—I see that in the issue of September 1st Mr. J. M. Connelly of Charleston, S. C., speaks of worms attacking his cannas. The only ones we have here are the larvæ of two species of

Hesperia, commonly called "skippers" by entomologists. These are the only butterflies whose larvæ feed on the canna that I know anything about. The Hesperia are found over the U. S. in general, though we have a Mexican species which gives us a visit every fall. The larva is at first very small, but grows to about one inch and a half long before it turns to a pupa. They turn down a small bit of the edge of the leaf and hold it down by a silken thread while they eat, then turn down more, always concealing themselves under the part they are eating. They ruin the foliage of our cannas here every fall and I do not think anything does any good except hand picking.

Houston, Texas. W. W. WESTGATE.

Geraniums and Cannas in Washington Park, Chicago.

GERANIUMS.

Large quantities of geraniums are annually grown by the South Park system for the purpose of bedding. Washington Park and Drexel Boulevard are gay from early summer till late fall with brilliant color effects of these old favorites. Of the hundreds of different varieties introduced from time to time not every one is fit for park bedding. Many otherwise beautiful varieties are worthless as bedders for various reasons, some are weak and straggling growers, while others can not stand our bright and often scorching hot summers. In this latter class are included most of the fancy leaved varieties, which are to-day most conspicuous by their absence from park collections. As a matter of fact the fancy colored foliage of the plant is not considered at all in the general qualifications of the variety as a first-class bedder. The main points to consider are first, good constitution, second, habit, that is strong and compact in growth, with flower trusses borne well above the foliage; third, effective color when massed together in large beds, and last but not least it must be able to stand the test of our changeable climate and preserve all its good qualities from the beginning to the end of the season. Some few varieties here stood this test for years, while others grown successfully a year or two have soon dropped out. Many sorts have been superseded by more meritorious varieties while others had to be discarded on account of an impaired constitution.

Some 27,000 geraniums were used for bedding this year by the South Park system.

"We grow about 30 varieties," says Supt. Kanst in response to our query. "But only about one half of these are grown in quantity, the other half is kept more or less on trial. The present season," continues Mr. K., "has been just to the liking of the geraniums, clear and bright skies, high temperature, and no rain for months to spoil the bloom; in consequence the plants have done better than in any former years that I remember. The beds have been a sheet of bloom from early June until about two weeks ago, when heavy rains set in. Continued wet weather as you know is not to their liking, and at present the beds make but a poor showing."

"What new varieties are you trying this year, Mr. Kanst?"

"My trial for this year comprises Mr. E. G. Hill's new set of some twenty varieties, in all respects the most meritorious varieties that have ever come under my notice; there is no really poor one in the entire set. I will give you what I con-

sider the cream of the lot so far as can be judged by one season's trial, of the balance I wish to say nothing at present, all will be tried another season, and it is possible I may change my mind as to their individual merits or demerits. The following varieties, however, will be grown largely next season.

"Mme. A. de la Chevalier, white semi-double, the very best double white geranium I have yet seen, robust grower, of compact form, free bloomer, trusses borne free above foliage, flowers lasting. I think so well of this sort that the whole bed will be taken up for stock plants. Alpine Beauty, this also is a fine double white, and only inferior to the first named. In habit this variety is fully as good as the former, and also very floriferous, but the bloom does not keep as long in condition. Mrs. J. M. Gaar; this is a perfect gem for a single white, the bed was a perfect sheet of bloom all summer. First-class habit, medium tall, flower trusses of medium size set free above foliage, unsurpassed in every respect. Mrs. E. G. Hill, clear salmon pink shading to white at the base of the petals, single, an exceedingly strong grower, compact in form, flower trusses large and compact, petals of flowers broad, of firm texture and lasting. Very effective when massed, first-class all around. Beauty of Poitevine, salmon pink, even color, single but inclined to come semi-double occasionally. Much the same both in color and habit as the last named, short jointed grower and not quite as tall. The first part of the season I was inclined to give this variety the preference over Mrs. Hill, and after all there is but little difference between the two; it is about a toss up. Ben Schroeder, clear warm pink, single. This variety outranks any single pink I have yet grown; rather dwarf in habit and of remarkably even growth. Very free bloomer, flowers lasting and effective.

"Alfred Tennyson, single light scarlet, vigorous grower, good habit, trusses of good size, one of the best in this class. J. R. Lowell, single, of shade often termed brick red. A grand variety, very vigorous, rather tall, very free bloomer, trusses of large size, compact and lasting; recommend it very highly. Fred Kanst, single glowing scarlet. A fine variety but has some weak points on account of which I can not recommend it as a first-class bedder; it is a rather weak grower and although an enormously free bloomer doesn't wear very well. I think it would make a first-class pot plant though. Meteor, single, vivid scarlet, flower truss medium large, very floriferous and very effective in group. Habit good. W. A. Chalfant, single, bright scarlet, strong grower, good habit, flower trusses of enormous size, which, and more is the pity, are borne on rather weak stems, allowing them to droop. This is a serious defect and on that account this otherwise splendid variety can not be recommended as an effective bedder."

"Which of the older varieties do you deem of sufficient merit to retain on your list?"

"I think it is hard to beat S. A. Nutt for a semi-double dark scarlet. Leon Simon is another good scarlet I intend to grow for a while at least. Mme. Messenier I still consider a good pink and well worthy of a place. Bruant is a good scarlet, and old Gen. Grant holds his own.

"On the other hand I shall drop Master Christine, superseded by Ben Schroeder; Dr. Jacobi, superseded by Mrs. E. G. Hill and Beauty of Poitevine. Waddington is crowded out by better sorts, as also Gen. Sheridan and Clemence Boutard.

My old favorite double white Candidissima will have to make room for Mme. A. de la Chevalier. Ernest Lauth will have to go, for it has lost its constitution, and for the same reason I shall drop Sapeur Pompier."

CANNAS.

The cannas are yet in splendid form, though not quite as good as they appeared before the rain storms. A comparatively small number of varieties are grown. Mr. Kanst had ample opportunity for study of the great number of varieties exhibited at Jackson Park last season. His selection was therefore of such varieties as are best suited for park purposes. Following is the list, which needs no descriptions, as the sorts are all well known:

Florence Vaughan, J. D. Cabos, Egandale, J. C. Vaughan, Paul Marquant, Mme. Crozy, Alphonse Bouvier and Chas. Henderson. All the above are found satisfactory in every respect except the last, Chas. Henderson, which is only now coming into bloom, while all the rest have flowered freely all summer.

"This variety comes in bloom too late," says Mr. Kanst, "and for that reason I shall discard it. Alphonse Bouvier is of the same color and a much freer bloomer."

To make the set complete a good clear yellow is needed. Mr. Kanst has one that seems to fill the bill named George Nicholson, in honor of Mr. Nicholson of the Royal Botanical Gardens, Kew, England.

"Mr. Nicholson," says Mr. K., "while visiting this country last year honored us several times by inspecting our park and took quite a fancy to this canna, which was unnamed as yet. Being asked if he thought it worthy of bearing his name, he replied that he would be proud of it."

There are at present two beds of this canna in full bloom, and we failed to see a single flower that showed the least trace of orange red on the lip, although Mr. K. states that occasionally a flower is marked that way. To our mind it is the ideal yellow. In habit it much resembles Mme. Crozy, the same dwarf stocky growth. The flower is of good substance but the petals are not as broad as the standard type and this is its only weak point.

Another seedling which originated here is called South Park, a crimson with yellow throat, a very sturdy grower with flowers of medium size and firm texture, a fine variety says Mr. K. for exposed positions. It will stand the whipping winds better than any other sort. Still another good seedling is Stella Kanst, a clear apricot with yellow throat, quite effective in a group, medium tall and very free bloomer, flower stalks branching, green foliage.

Adiantum Cuneatum.

We present in this issue an engraving of a very handsome specimen of Adiantum cuneatum grown by Mr. E. S. Haskell of New Bedford, Mass., he having kindly sent us the photograph. The adiantum is in a 12-inch pot and the fronds have a spread of four feet and three inches. In response to a request for a description of the cultural methods which produced such excellent results, Mr. Haskell writes as follows: "It is impossible to write a lengthy article, for the method is too simple. There are a few rules that may be of benefit to some: 1st, never allow the adiantum to get dry; 2nd, never keep it standing in a saucer of water; 3d, never



SPECIMEN ADIANTUM CUNEATUM.

allow it to get pot bound; 4th, give plenty of liquid dressing; 5th, give partial shade and a temperature of about 75°."

How to Make and Care for a Lawn.

BY H. A. DREER.

[Read at Cemetery Superintendents' Convention, Philadelphia, September 11-13, 1894.]

We always base much importance on preparatory work, especially the lawn, hence the importance of the care taken in starting a new lawn. The formation of the lawn is often hastily and imperfectly done. Mode of preparing is often controlled by the position and location of the ground, also the season. Excellent results are obtained by preparing and seeding in September, south of northern New York, and from September 15 to October 15 south of Maryland; but in the majority of cases this work is done in early spring in every locality as soon as the frost has come out of the ground sufficiently to allow working, which should in all events be dry.

Any piece of ground to be put down in lawn, whatever condition it may be in, requires plowing, deep harrowing and equalizing; deep harrowing is very important where the soil should form into hard lumps after plowing. This method lifts out the clods, allows the fine soil to fill in the crevices which would otherwise fill after heavy rains when the seed is sown and lawn finished. The above will apply to any location of a slope, even slight, but should the location be flat and level, drainage is a requisite; this can be done even by rubble or tile. An undulation or a gravelly subsoil will alone insure sufficient drainage. The depth of soil is an undecided point. It is believed, and wisely too, that on high points and knolls the soil should have a depth of at least 12 to 15 inches to endure drouth, whereas on a level it will sustain its requirements at a depth of 8 inches.

During preparation the question of fertilizing is the next consideration. Should

the ground be in a fair condition, through previous fertilizers applied, a coating of pure ground bone (600 lbs. per acre) will suffice. We believe pure ground bone to be the best constant feeder—this to be applied at the time of seeding.

The ground having been plowed, harrowed, leveled and raked into a smooth, even surface, is now ready for the seed. The fertilizer having been applied and thoroughly incorporated prior to the finishing, the seed is sown at the rate of $3\frac{1}{2}$ to $4\frac{1}{2}$ bushels per acre (this means 20 lb. bushels); the sowing to be done by hand, all grasses thoroughly mixed before sowing. Should it be required to sow wheat, oats or rye with the grass, this should be sown at the rate of 1 bushel per acre broadcast, and harrowed in lightly, then the grass seed sown. It is not claimed for the wheat, rye or oats to protect the grass during the winter or shade it in summer, but to help in building the sod and keep the surface in a condition to absorb all of the nutriment of the decomposing fertilizer, as well as absorbing the nitrogen from the atmosphere. After the seed is sown a careful raking with a wooden hand rake lightly drawn over the surface evenly distributes the seed and lightly covers it. Now must be done the most important of all the work, and that is the rolling.

The condition of the surface at this time is just what it will be as a finished lawn; all alterations after this are tasks with poor results. If the lawn is sown in the fall, a covering of tobacco stems will prove a great benefit, especially if the soil has not had a coating of hard wood ashes, the tobacco stems will supply the amount of potash and ammonia, which will give the lawn new life. If sown in spring, a covering of well rotted manure finely sprinkled all over, about March 15, and allowed to remain a month will give the needed food and shading. In raking off the covering use a coarse wooden rake, thus allowing a fine mulch to remain.

What seed to sow: There are many confusing suggestions regarding this. Some advocate annual types, and seed each year; but it is conceded by all experts and authority that perennials of tried sorts are the best. Avoid all Canadian grasses; they are coarse and not very carefully harvested, but excellent for pasture.

In our Fairmount Park we have some of the finest plateaus of grasses which have endured drouths, and have been cut every week. These mixtures contain perennial rye, Kentucky blue, sweet vernal, extra cleaned red-top, natural green and white or Dutch clover. Italian rye is also frequently used, being a very free grower, somewhat coarser blade, but constant mowing keeps it in condition to present the appearance of a finer grass.

It is customary to use sod on all borders and on terraces. The sod should be laid at the borders so as to be about half an inch below the surface of the soil; this to be done before the seeding. After a thorough rolling the soil is brought to a level with the surface. The manner of laying sod is left to the judgment of the experienced. The bevel system having been practiced a long while is a good one, provided it is laid in fall or early spring; but after April 1 it is better to cut it square and thick, and lay very closely, fill the remaining crevices with good soil, and give a light sprinkling of grass seed; this will prevent burning the edges. Laying sod on steep terraces is successfully done by using pins eight to ten inches long (two to each piece of sod) and driving through; this will necessitate a thorough beating down of the soil before laying the sod hard enough to guard against washing and loosening.

Mowing should be done at least once a week in favorable growing weather, and even in dry, warm weather it should be cut twice a month. If the lawn has been properly made in the first place, and top dressed, the weather will have to be very dry to prevent its growth. The best mode of maintaining is the care given at proper times. In the fall it is necessary to give a good scarifying; this is done with a sharp-toothed rake made for that purpose. This operation is called cultivating. If the grass shows thin in some places another light sowing should be made, then cover with tobacco stems, if the space is not very extensive, or give a coat of kainit; this should be applied in December. The scarifying process may be done again in spring, but not very heavy, merely enough to give a good combing all over. If top dressing can be done, good rotted manure may be used, allowing to lay from March to May, and then raked off with a coarse rake.

Weeds are offensive and unsightly; cutting out of the large ones is sufficient, as the smaller ones are choked by constant mowing. This means perpetuating and caring for a lawn is open for improvement, also varies in different localities. Where fertilizers containing pure bone in majority can be secured at small expense it is advisable to use, and avoid manure from the stable because of its weed producing.

SUBSCRIBERS—Please note that the day for mailing the AMERICAN FLORIST has been changed from Thursday to Saturday, which enables us to give the news of each week complete, and that when mailed on the new schedule time it should reach subscribers within two days travel on Monday.

New York.

The heavy overstock of roses continues and with results naturally unpalatable to growers and wholesalers. The quantity of stock coming daily to this market may be imagined when it is stated that the receipts of one commission house reached the number of 34,300 roses in one day. Probably not more than 10 per cent. of the roses received at this season are used by the legitimate trade, the balance of 90 per cent being cared for by the street men. The outside price for good roses of the ordinary market varieties is \$3 per hundred, and when large quantities are disposed of the price does not run above \$6 per thousand. A movement is on foot among some of the Madison growers looking toward some combined action on the part of the growers to establish a market price on roses and forbidding their commission men to sell below the established figures. There have been several meetings at which the proceedings have been guarded with much secrecy. It is difficult to see how any benefits can be secured by any such action. The only practical way to raise and maintain the price on roses when there is an overstock is to destroy the overstock. Throw away three-fourths of all the roses now being cut and the balance will feel the benefit. But there is not the least probability of any such action.

Stock in general begins to improve in quality. Perles are particularly good at present. White carnations are scarce and sell readily at \$1 per hundred. White asters are also in demand. Some single violets are being received, but the quality is poor and they bring only from 15 to 25 cents per hundred. A very few double ones are coming in. Lily of the valley is fine, but sells slowly.

Thomas F. Carr, who has been in business for the past eighteen years on the corner of 35th street and Sixth avenue, died on September 11, aged 57 years. He has had hemorrhages several times during the past two years, and these finally carried him off. The store originally occupied by Mr. Carr on the corner opposite his recent location was at one time run by David Brooker. Carr and Charlie Carlin, who is now buyer for Thorley, were in the employ of Brooker, with whom they had formerly worked as employes of Walter Reid. By some means Carr got possession of Brooker's store, and the firm of Carr and Carlin was formed in 1876. The capital of the new firm consisted of \$100 in cash apiece, and they managed to clear a profit of \$4,000 apiece the first year, which was apparently more prosperity than they could stand, for they disagreed and separated, Carlin taking a store just vacated by Walter Reid on 34th street, which he kept for just two months, and Carr retaining the old stand. His main business was that of jobbing gardening and he made a great success of it, leaving considerable property, which by a peculiar provision in his will does not come into possession of his sons for some years yet.

The stock of palms and decorative plants offered on Tuesday, 18th inst., at the two auction rooms down town was of the finest possible quality, Rolker selling for New York growers and Elliott for Philadelphia growers. The buyers were few, however, and the prices obtained were ruinously low. It was essentially a buyers' day, and those who bought got big bargains. "You have it all your own way to-day; some of these days I'll have my turn" was the song which Elliott sang to them. Palms and rubbers suf-

fered most severely, and did not bring on an average more than one-half customary wholesale prices.

The now thoroughly advertised "scamp" was trying to work his game on the Herrmanns, Chas. Schwake and others in that vicinity a few days ago. He gave his name here as G. A. Thornton and represented that he was opening a new store in Brooklyn. His plan was to buy a bill of goods and offer in payment a check representing \$5 or \$10 more than the amount of the bill, but it is not apparent that he had any success in this neighborhood.

J. H. Dunlop of Toronto was in New York on Tuesday and Wednesday of this week, his mission being to attend the funeral of an uncle. Other visitors in town were Rob't Craig and W. K. Harris, who had come over from Philadelphia to look after their interests in the plant sales; and A. Whiting of Hartford, who got some of the bargains.

In last week's notes it was announced that the McFadden orchids would be sold by Wm. Elliott on September 18. This was not correct. The date should have been September 25. This will be a rare chance for cypripedium enthusiasts.

George Stumpp is fitting up an elegant store on the corner of 58th street and Fifth avenue, which he expects to open about December 1.

Chas. Schwake has added a department of imported metal wreaths and designs to his business.

All members of the New York Florists' Club wishing to join the Bowling Club are requested by Captain E. Leuly to meet at 7 East 22nd street, Monday, September 24 at 4 o'clock.

Boston.

A very gratifying revival in trade is reported by all the florists. The past week has shown quite an improvement in the demand which it is hoped will be permanent. The quality of the flowers coming in to the city averages rather inferior. Roses are badly covered with mildew in many cases, and asters are plainly getting down to the last run, while carnations are just between crops, neither the late ones from outside nor the early ones from inside being entitled to any medals for style or quality. Gladioluses, lilies and hydrangeas have all seen their best days for this season, their end having come sooner than usual on account of the parched condition of the ground and the high temperature.

Outdoor verdure begins to take on a decidedly autumnal appearance. Many trees and shrubs are shedding their leaves much earlier than customary and the indications are that the autumn coloring of the foliage will show but little brilliancy. In fact, many of the maples are already brown. Small shrubbery, especially such as are shallow rooted, are showing the effects of the extraordinary drouth in drooping leaves and stunted stems.

The fruit and vegetable show at Horticultural Hall on September 15 was excellent. The hall was beautified by many contributions of flowers, prominent among which were the hardy garden perennials and wild flowers. Yellow tints prevail just now, heleniums, silphiums, rudbeckias, helianthus, anthemis, coreopsis and solidagos all combining in a glory of orange and gold. The collection of these autumn beauties exhibited by the Harvard Botanic Garden was especially brilliant. Oakes Ames Jr. showed a plant of *Cypripedium Charlesworthi* in

bloom but was a week behind W. W. Lunt, who showed this grand acquisition here first at the exhibition of September 6 and was awarded a silver medal for it. A certificate of merit was given Mr. Ames.

H. A. Schroyer of Lancaster, Pa., visited Boston in the early part of the week. Unfortunately, or perhaps he may think fortunately, he did not notify us of his intentions, so the boys missed him, a fact much to be regretted for Mr. Harry deserves a cordial welcome wherever he goes.

Wm. E. Mansfield, senior member of the firm of Mansfield & Langer, died at his home in South Boston on September 15.

Edward Hatch will sell palms and rubbers for W. K. Harris on September 29.

Montreal.

The Montreal Horticultural Society and Fruit Growers Association of the Province of Quebec held their annual exhibition in the Victoria Skating Rink, opening on the 11th and closing on the 15th. A building more suitable for a flower show than the rink is hard to find, and when opened to the public Tuesday afternoon, presented truly a grand sight. The floor was laid out as a parterre; the beds, which were of various shapes and dimensions were surrounded with grass sod and filled in with sand, the walks being sawdust. Several hundred yards of asparagus was used in festooning, which with an abundance of bunting had a very pleasing effect. Although the quantity of good specimen plants may have been a little less than some former years the display as a whole has not been excelled by any previous effort of the society.

The principal objects of interest were the two groups of plants each covering an oval bed about 100 feet in area, Mr. Roy getting first and Mr. Betrix second prizes, after which came the four groups of 50 feet, exhibited by Messrs. Roy, Betrix, Walsh and Eddy. Those groups contained all that is choice and rare in the way of stove and greenhouse plants, and any one fortunate enough to have seen them before being grouped can certify that there were scores of perfect specimens, but unfortunately the prevailing style of building groups into a solid pyramid conceals the beauty of the plants and only allows the spectator to see enough of some plants to identify them. Limiting the number of plants to be used on a given space might bring about an improvement.

The competition in specimen palms was keen, there being a grand lot. For the five table plants in not over 6-inch pots there were almost a dozen entries. Mr. Wm. Wilshire had *Croton musiacus*, *Dracæna Lindenii*, *Dracæna terminalis*, *Ananassa sativa* var. and *Acanthophoenix cinnita*. Mr. Roy had *Ananassa sativa* var., *Cocos Weddelliana*, *Latania borbonica aurea*, *Codiaeum chelsoni*, *Adiantum gracillimum*. Mr. Meyer's plants were *Yucca aloifolia*, *Cordyline australis*, *Pandanus utilis*, *Pandanus Veitchii*, *Dracæna congesta*. Mr. Walsh's plants were *Dracæna terminalis*, *Tillandsia Innocenti*, *Ananassa sativa* var., *Dracæna Goldiana*, *Livistona altissima*. A large specimen of *Coccoloba pubescens* was shown by Mr. Roy, which received first prize for the best foliage plant. Mr. McHugh's tuberous begonias were perhaps the best ever shown here. The fuchsias exhibited by Mr. Holder were certainly the finest shown here for years, several of them standing five feet high and three feet through. Mr. Trussell's geraniums were grand as usual, among which were a few of his own seedlings which are fully equal to the best French varieties.

There was very little competition in made-up flowers. Mr. Davidson had a fine basket composed of Perle and Bridesmaid roses; one pyramidal bunch was noticed which recalled memories of a quarter of a century ago. The display of cut bloom was not large but of extra good quality, pansies and gladiolus being exceptionally fine. J. S. Cowles of Newport, R. I., showed a seedling canna of the Crozy type, it having a more yellow in it than the parent.

The attendance at the show has been good and the society congratulate themselves on having held an all round successful exhibition; of course there has been some dissatisfaction at some of the awards, but when was there an exhibition where there was not less or more?

Following is a list of the principal awards on plants and flowers:

Collection of plants, 100 square feet—Frank Roy, Mount Royal Cemetery Co., 1; Jules Betrix, gardener to Andrew Allen, 2.

Collection of plants 50 square feet—F. Roy, 1; J. Betrix, 2; John Walsh, gardener to W. W. Ogilvie, 3; John Eddy, gardener to Mrs. Redpath.

Adiantums—W. Wilshire, gardener to Mr. R. B. Angus, 1; F. Roy, 2; J. Betrix, 3.

Anthrums in bloom—F. Roy, 1; W. Wilshire, 2; J. Walsh, 3.

American aloes (2)—John Eddy, 1; C. A. Smith, gardener to T. A. Dawes, Lachine, 3.

American aloes, specimen—A. Pinoteau, Logan's park, 1.

Begonias, foliage—A. Pinoteau, 1; C. S. Smith, 2; H. W. Meyer, gardener to John Molson, 3.

Twelve begonias, tuberous—Thomas McHugh, Forest and Stream club, Dorval, 1; F. Roy, 2; Geo. Trussel, gardener to J. H. R. Molson, 3.

Six begonias, tuberous—F. Roy, 1; W. Wilshire, 2; A. Pinoteau, 3.

Six caladiums—J. Betrix, 2; H. W. Meyer, 3.

Six crotons—F. Roy, 1; W. Wilshire, 2.

One cycas—A. Pinoteau, 1; J. Betrix, 2; John Walsh, 3.

Four dracaenas—F. Roy, 1; W. Wilshire, 2; Geo. Copeland, Cote des Neiges, 3.

One dracaena—F. Roy, 1; Geo. Copeland, 2; John Walsh, 3.

Six ferns, tree ferns excluded—W. Wilshire, 1; F. Roy, 2; Geo. Copeland, 3.

Three do—F. Roy, 1; H. W. Meyer, 3.

One fern, specimen—F. Roy, 1; T. McHugh, 2; J. Betrix, 3.

One tree fern—J. Betrix, 1; J. Walsh, 2.

Six fuchsias—T. Holder, gardener to Mr. James A. Cantlie, 1.

Three fuchsias—T. Holder, 1.

One fuchsia—T. Holder.

Six zonal geraniums—George Trussell, 1; F. Roy, 2.

Six double geraniums—George Trussell, 1; F. Roy, 2.

Three tricolor and three bronze geraniums—George Trussell, 1; F. Roy, 3.

Ficus elastica—F. Roy, 1; George Trussell, 3.

Ficus elastica variegata—C. A. Smith, 2.

Hanging basket of plants—F. Roy, 1; A. Pinoteau, 2; P. A. Summerville, 3.

Hanging basket of ferns—C. A. Smith, 1; John Eddy, 2; A. Pinoteau, 3.

Lygodium scandens—Geo. Copeland, 1; John Walsh, 2.

One maranta—J. Wilshire, 1; F. Roy, 2.

Nepenthes, three—F. Roy, 3.

Nepenthes, one—F. Roy, 2.

Three orchids in bloom—F. Roy, 2; W. Wilshire, 3.

One orchid—F. Roy, 1; W. Wilshire, 2.

Six palms—W. Wilshire, 1; John Walsh, 2.

Three palms—W. Wilshire, 1; T. Holder, 2; F. Roy, 3.

Six palms, not larger than six inch pots—F. W. Mayer, 1; F. Roy, 2.

Specimen plant—H. W. Mayer, 1; John Walsh, 2; T. Holder, 3.

Vase plants—F. Roy, 1; George Trussell, 2; B. T. Graves, Cote St. Antoine, 3.

Five plants for table decoration—W. Wilshire, 1; F. Roy, 2; H. D. Mayer, 3; John Walsh, 4.

Six pairs of selaginella—George Copeland, 1; C. A. Smith, 2; F. Roy, 3.

Specimen green house plant in bloom—T. Holder, 1; F. Roy, 2.

Greenhouse foliage plants—W. Wilshire, 1; F. Roy, 2; H. W. Mayer, 3.

Greenhouse foliage plants—F. Roy, 1; H. W. Mayer, 3.

Three French cannas—F. Roy, 1; J. Betrix, 3.

One French canna—F. Roy, 3.

One greenhouse climbing plant in bloom—J. Walsh, 2; J. Betrix, 3.

Six coleus—George Trussell, 1; B. T. Graves, 2; F. Roy, 3.

Three coleus—George Trussell, 1; F. Scott, jr., 2; B. T. Graves, 3.

BEAVER.

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

Chicago.

There is a little more life in the cut flower market this week. Society people are beginning to return from their annual migration to Europe, the sea board or other summer resorts. A number of retail houses are booking orders for October weddings, but nothing elaborate in the way of decorations is noted. Several weddings took place this week, which called for some fair sized decorations; these and a lively demand for funeral flowers has made white stuff of all kinds extremely scarce. It seems good to see the retail boys in their hustling clothes once more.

The call for light colored material was quite lively the middle of this week, and the market was cleaned out entirely in this line. White roses are short in supply, and with exception of Kaiserin, of poor quality. Brides are small and many of them more or less mildewed. Red roses, particularly Meteor, are good and plentiful, and so are Bridesmaid and Test-tout. First quality Beauties sell readily, but short to medium are slow. Carnations are improving every day; white is very short in supply. Daybreak is very abundant at present; this variety is being grown this season in enormous quantity and bids fair to flood the market. Very little outdoor stuff is coming in. Hydrangeas and asters are nearly gone, sweet peas have disappeared and dahlias are few and poor. Cattleyas are received once more, but find little demand as yet.

A new combination of growers has been formed under the firm name of The Rogers Park Floral Co. The firm is composed of the following members, all being located at Rogers Park, representing a total of 130,000 square feet of glass: A. Zender, J. Muno, H. Wieter and N. Wieter. This firm will handle their own stock exclusively and will be open for business Monday, Sept. 14, at 41 Wabash avenue, second floor.

Among recent visitors to the city were Mr. C. T. C. Deake of the Idlewild Floral Co., Asheville, N. C.; and Mr. Louis M. Noe of Madison, N. J.

Mrs. J. A. Merrifield, wife of J. A. Merrifield of 3425 Prairie avenue, was the victim of a shocking elevator accident at her home in the Beveridge flats on Tuesday last. Accounts of the origin of the accident differ, but the unfortunate lady was caught between the door and the elevator, and fell to the bottom of the shaft, a distance of forty feet, death being almost instantaneous. Mr. Merrifield has the sincere sympathy of a large circle in his bereavement.

Toronto.

The show of cut flowers and designs at the exhibition last week was fully up to the standard, the latter being perhaps ahead of former years in taste and general get up. The judging in this class was done by Mr. P. Breitmeyer of Detroit, at the suggestion of the Gardeners' and Florists' Association. Unfortunately when I was taking notes the names of the exhibitors had not been written on the prize cards and the judge had borrowed my pencil so that I must beg to be excused for any discrepancies.

French cannas, 20 spikes in one vase, a section put in for the first time, made a dazzling exhibit, the first prize being captured by the Steele, Briggs, Marcon Seed Co. There was also a splendid show of gladioli, some very fine varieties being shown by Mr. A. Gilchrist of Toronto Junction. Water lilies also made a fine and very attractive exhibit; there were

some immense blooms of Devoniensis, Zanzibarensis and others, but I must say that these big blooms look coarse and out of place away from their natural element and surroundings. Mr. Houston of the Central Prison, who took first prize, showed a bloom of Victoria Randii; Mr. Reeves, Reservoir Park, was second with a fine lot.

For the best collection of cut flowers in vases, not more than 50, there were two entries, Manton Bros. and Grainger Bros., and they made a most beautiful exhibit, both being very tastefully arranged. It appeared to be a toss up which was the best, but the judge decided that the latter firm was ahead on the point of greater variety. Harry Dale was first for collection of roses, 3 of each. Manton Bros. and A. Gilchrist made a splendid show with collections of hardy plants (cut blooms), the former taking first prize; the second prize went to what appeared to me a very ordinary lot, but no doubt the judge had good reasons for his judgment—I don't question it.

There was the usual show of asters, stocks, zinnias, dahlias, petunias, verbenas, dianthus, phlox, Drummondii and perennial, hollyhocks, sweet peas, etc., etc., all of which being better arranged than usual made the hall very bright. Of floral designs for table, funeral designs flat and otherwise, baskets, bouquets, there was no end. Mr. C. Arnold had a magnificent broken column of ivy leaves and white flowers which took first prize. Mr. C. Tidy had a simply lovely star on base most beautifully put up. Other exhibitors in this section were Manton Bros., J. Cotterill, F. G. Foster (Hamilton), Grainger Bros., W. J. Laing and others, and I regret exceedingly being unable to give descriptions of their exhibits and the prizes they took.

The number of people visiting the city during the exhibition was unprecedented, many gardeners and florists from outside cities and towns were among the number. The G. and F. Association should have a tent in society row next year to receive visiting brethren.

Before and during the first week of the exhibition Mr. Chambers had the grass and the flower beds in tip-top condition, but after the crowds of the second week it reminded one of the Wooded Island after the 4th of July or Chicago day.

E.

Philadelphia.

Heavy rains have at last relieved the severe drouth and will prove a great help to the growers in getting their stock from the open ground to the houses. Business is commencing to look up and new faces or old familiar ones are to be seen on the streets in increasing numbers. Growers, too, are looking up, the new crops are coming in and it goes against the grain to see the flowers going to waste when they might be turned into cash. As a consequence they are packed into boxes and baskets and lugged up one street and down another looking for that alchemistic touch that is to turn them into gold. This lugging business, this littering up a man's store with boxes and baskets, of not so much consequence now, is later on a great nuisance; when is it going to stop? We have hoped against hope for years but see little signs of a change.

Mr. Jos. Heacock, a large grower of Jenkintown, is getting tired of the old plan and after offering to go into any market scheme, in which he could control and handle his own flowers, without success, is to open soon a small market of

his own and has the prospect of getting a few growers to help him try the plan. This may be the starting point of a great market. We hope some good will result from it. There are also rumors of a movement among some of the principal growers to bring about a better method of handling flowers, a system somewhat on the Wisconsin Flower Exchange plan—but here the subject drops. Who is doing it, how is it to be done, whether there is any sand in the people back of it, whether it is simply a visionary scheme or not are all problems yet to be solved. It is said to be a thing of the near future and again it may be six months or perhaps a "coming next year" affair. Now boys don't be rash, don't do anything in a hurry, there are still a few cities that may want to start something of the kind, better wait and get a place, even if it is last.

W. K. Harris' place was visited by lightning during a recent storm; his largest house was struck, a center post was split down and a few of the boards at the end of the house forced off inside and out, but not a pane of glass was shattered.

Wm. Wyatt of 13th street has been improving and adding to his store; he has built a small greenhouse in the rear which will be of great use to him and also gives the store a very attractive appearance.

S. S. Pennock has returned from an extended trip through the New England States.

The sale of palms and foliage plants on Tuesday last at Rolker's, from Messrs. Harris, Craig, Lonsdale and Burton, was very satisfactory to the buyers, the growers according to their account were not in it.

Plants for the local trade have commenced to move a little, the stores are stocking up and some early weddings and banquets as well as "fall openings" have given the boys a chance to show their skill as decorators. All kinds of palms are to be had in quantity and the quality is most excellent. We feel safe in saying that the stock of this class of plants is larger, more varied and better grown this season than ever before. This stock should be moved before spring, and in order to do this all hands must not wait for too much profit. To make things move lively prices as well as plants must be inviting. K.

You CAN'T AFFORD to do business without a copy of our trade directory and reference book.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advts. not admitted under this head.

SITUATION WANTED—Commercial or private; age 32, single, American; 8 years' experience. Good references. Near Chicago preferred. Lock Box 215, Oval City, Stark Co., O.

SITUATION WANTED—By thorough, first-class assistant; 7 years in commercial place growing roses, carnations and mums. Thoroughly reliable and trustworthy. ERNEST LEAB, Louisville, Ky.

SITUATION WANTED—By practical florist, age 24; 9 years' experience. Best of references. Please make me an offer at once. Address F. N. QUICKERT, 617 Reservoir Ave., Milwaukee, Wis.

SITUATION WANTED—By young man, age 26, German, can speak English; experienced in growing roses, carnations, and general stock. Also a good propagator. Address BERNHARD SCHELLEIT, care A. Barbe, Kansas City, Mo.

SITUATION WANTED—As manager, foreman or assistant in Southern N. E.; 12 years' experience in retail end flower and plant trade. Can do own repairs, piping, etc. No liquor. E. A. CHIPMAN, Woodsocket, R. I.

SITUATION WANTED—By successful grower of cut flowers and plants; good propagator and despatcher. Competent to take full charge; 17 years' experience; German, married; age 35. Good recommendations. PROPAGATOR, care American Florist.

SITUATION WANTED—By young man of 21, as shipping clerk, salesman or decorator in flower or seed store. Experienced in packing of flowers and plants. Best of references. Address EXPERIENCE, care American Florist.

SITUATION WANTED—By gardener, landscaper and florist; English; 10 years' experience; best habits and references. Want place in Illa. or Wis. \$20, board, lodging and washing required. Address RICHARD THOMAS, Box 412, Neoga, Ill.

SITUATION WANTED—By thorough, first-class assistant; 5 years in commercial place. Can take charge of 15,000 feet of glass (retail cut flower trade). Those in want of a reliable man address GROWER, care American Florist, Chicago.

SITUATION WANTED—As assistant by young American, single; used to first-class retail trade; store or greenhouse work; can take charge; practical, reliable worker; good salesman; abstainer. Good references. Address E P P, care Am. Florist.

SITUATION WANTED—After Oct. 15th, as foreman on commercial place of 25,000 or more feet of glass, where roses are made a specialty. References: N. F. McCarthy, 1 Music Hall Place, Boston; or A. Montgomery, care E. M. Wood & Co., Natick, Mass. M, care American Florist, Chicago.

WANTED—For Ohio, a young experienced florist for general greenhouse work. State wages and references. L, care American Florist.

WANTED—80 second-hand hotbed sash 6x3, three lights. Also 600 feet of 2-inch iron piping. Send estimates to JAMES LAWRENCE, Groton, Mass.

WANTED—For San Francisco, a competent man for a private place; must be fully capable to attend to orchids and exotic plants. State references and wages. Address Z, care American Florist.

WANTED—Florist and gardener, a good willing worker that understands taking care of an orchard and can attend to small greenhouse. Wages dependent on capability. For particulars inquire H. A. ALDRICH, Neoga, Ill.

WANTED—Man to care for lawn, garden, flowers, horse and cow, and make himself generally useful. Wages \$25.00 per month. All applicants please give age, experience, nationality and references. G. E. DILLEY, Palestine, Texas.

WANTED—A good working, single man, as assistant. A good grower of roses and carnations; one who does not use liquor, tobacco or swear. Send references and state wages. Address IOWA, care American Florist, Chicago.

WANTED—A good working foreman, to take charge of greenhouses; must be experienced in propagating as well as forcing roses and carnations; also forcing bulbs. Must be single. Address MRS. GEO. R. FRAVELL, 322 S. Washington St., Marion, Ind.

WANTED—Young man of 20, with greenhouse or seed experience; must write good hand, have intelligence, work and ambition. Have opportunity to grow into good position in seed business. Address with particulars and references. HORTICULTURE, care American Florist.

FOR SALE CHEAP—One water-buck. Address LEWIS TURNER, Kenosha, Wis.

FOR SALE CHEAP—Large second-hand florist's Ice Box, value about \$75. VAUGHAN'S SEED STORE, 88 State Street, Chicago.

FOR SALE CHEAP—Large, new hard wood and glass florist's Refrigerator. Used at World's Fair. Price reduced to \$175. VAUGHAN'S SEED STORE, 146 & 148 West Washington St., Chicago.

FOR SALE OR RENT—Greenhouses, either 15,000 or 30,000 square feet of glass, stocked with best variety of roses. Or will take partner with \$1,000 capital. Address A. T. JACKSON, station X, Chicago.

FOR SALE—Stock, goodwill and fixtures of established florist business in thickly populated portion of Philadelphia, on a good business street; trolley cars pass the doors. Attached to store are three greenhouses containing 100 feet of glass. A very showy place. Low rent. Will sell low to quick buyer. Address ARTHUR MALLOX, JR., 2432 Ridge Ave., Phila., Pa.

FOR SALE—Greenhouses, plants, hotbeds, water-works and fixtures, in live university town of 4000. Good paying retail business, flowers, vegetable plants and vegetables. Established 10 years. Near college and depot; 2 acres land, good house and barn; good climate. \$1,200; easy terms. Only greenhouses here. Good reasons. Will assist purchaser in marketing. ARCHIAS SEED STORE, Fayetteville, Wash. Co., Ark.

FOR SALE OR LEASE—Florist business in one of the finest cities and health resorts in Colorado; 5 greenhouses, each 75 by 20 feet, also dwelling; all heated with steam, and well stocked with roses carnations, mums and violets. Trade wholesale and retail. Will sell stock and give long lease on the place, or will sell the whole place on easy terms. Reason for selling poor health. Address VICTOR JOHNSON, box 884, Colorado Springs, Colo.

FOR SALE Well established florist business, 1200 square feet of glass filled with fine and rare stock ready for the fall and winter trade, 8000 pots, etc., etc. **For \$500.** Will be sold at once. It is given away almost for nothing. For particulars address NEBRASKA, care Am. Florist.

NOTICE. I have bought the Floral Park Greenhouses formerly owned by Victor Johnson & Co., and will connect this business with my Broadway Floral Conservatory. Wanted wholesale catalogues in any style, send to Block G, West Abriendo Ave., G. Fleischer, prop. I would like to engage Otto Blunder in my florist business; can somebody give me his address? G. FLEISCHER, Pueblo, Colorado.

TO WHOM IT MAY CONCERN: The firm of UHLMANN & HAISCH, of Memphis, Tenn., has been dissolved by mutual consent, and is succeeded by E. UHLMANN, who will carry on the business of florist in all its branches, and who will endeavor to maintain the enviable reputation gained by the late firm for high artistic work, and for elegance and promptness in the execution of all orders.

FOR SALE. Six (6) greenhouses, two hot water boilers, about 2000 feet 2-inch wrought iron pipe, valves, etc., lot of hotbed sash, frames, benches and about 35,000 flower pots. The entire plant will be sold at a very low cash price, as the whole must be removed off the premises before Sept. 1st. For particulars address L. R. MUNN, Station C, Brooklyn, N. Y.

PITCHER & MANDA.

Special inducements are now being offered in plants of very high quality, at the lowest prices ever known. Such an opportunity to secure bargains in Orchids, Palms, Ferns, Azaleas, Genistas, Ficus, Stove and Greenhouse Foliage and Flowering Plants, Herbaceous Plants and Bulbs seldom occurs.

Write us your requirements and we will furnish estimate of cost.

UNITED STATES NURSERIES, Short Hills, N. J.

CHAS. D. BALL, Holmesburg, Phila., Pa.

PALMS, ETC.

A full stock in the best condition possible; stout, perfect plants. All sizes up to elegant specimens.

ARECA LUTESCENS, LATANIA BORBONICA, KENTIAS, PHOENIX RECLINATA and P. RUPICOLA, COCOS WEDDELIANA, FICUS ELASTICA, CYCAS REVOLUTA, ARAUCARIA EXCELSA, PANDANUS UTILIS, Etc., Etc., Etc.

If you do not know the quality of my plants, try some. There are none better.

. PRICE LIST ON APPLICATION.

Roses.

1000 MERMETS, 600 NIPHETOS,
1000 BRIDES, 150 TESTOUTS.
All from 2½-inch standard pots. These are in the very best of condition and as large as a great deal of the stock shipped from 3½-inch pots.
Per doz. 75c.; per 100 \$5.00; per 1000 \$45.00.
Samples free to intending purchasers.

Pandanus Utilis.

6-inch pots.....\$5 00 per dozen
5-inch pots..... 3.00 per dozen
4-inch pots..... 2.00 per dozen

Cyperus Alternifolius.

3½-inch pots, per doz. 75c; per 100 \$6
2½-inch pots, " 60c; " \$4
2-inch pots, " 40c; " \$3

Grevillea Robusta.

3-inch pots, 10 to 15 inches high, per dozen \$1.00; per 100 \$8.00
2½-inch pots, " 65c; " \$4.00

**NATHAN SMITH & SON,
ADRIAN, MICH.**

ROSES AND CARNATIONS

For Winter Bloom.

MERMETS, BRIDES, BEAUTIES,
PERLES, WATTEVILLE, METEOR,
and WABAN.

Clean, healthy stock, from 3½-inch pots, \$6.00 per 100; \$45.00 per 1000.

25,000 FIELD-GROWN CARNATIONS, fine, healthy stock. Seed for list of varieties and prices.

FERNS—Adiantum cuneatum, 2½-inch pots, \$3.00 per 100; from 4-inch pots, \$6.00 per 100.
Ferns in fine assorted varieties, same price.

JAMES HORAN, Bridgeport, Conn.

Mention American Florist.

ROSES.

2½-inch pots, Per 100 Per 1000
BRIDE.....\$2.50 \$22.50
MERMET..... 2.50 22.50
GONTIER..... 2.50 22.50
SOUPERT..... 2.50 22.50
WHITE LA FRANCE..... 2.75 24.00
SUNSET, PERLE..... 2.80 25.00
And all other standard varieties, 2½, 3½ and 4½-inch pots. Write for prices on what you need.
TERMS CASH WITH ORDER.

THE NATIONAL PLANT CO., Dayton, O.

ROSES.

Mermets, Cousins Wattevilles, Hoste, Meteor and La France, \$3.00 per 100.
Strong American Beauties, \$5.00 per 100; \$40.00 per 1000. 500 at 1000 rates.

Special prices on quantity. Let me price your lists. Cash with order.

**ROBERT F. TESSON,
West Forest Park, St. Louis, Mo.**

ROSES.

Clean, healthy stock.

MERMETS, BRIDES, SUNSETS,
NIPHETOS, LA FRANCE, PERLES,
MME. WATTEVILLE, BON SILENE, METEOR,
PAPA GONTIER.

Strong plants, from 3-inch pots, \$8 per 100; \$75 per 1000.

WOOD BROTHERS, Fishkill, N. Y.

Rose Plants Cheap.

AM. BEAUTY.....3-in. \$5.00 per 100; 4-in. \$8.00 per 100
MME. TESTOUT..... 6.00 " 3½-in. 8.00 "
K. A. VICTORIA..... 6.00 " " 8.00 "
BRIDESMAID..... 5.00 " " 8.00 "
BRIDE..... 4.00 " " 6.00 "
LA FRANCE..... 4.00 " " 6.00 "
MME. HOSTE..... 4.00 " " 6.00 "
NIPHETOS..... 4.00 " " 6.00 "
Stock strong and healthy. Samples sent.

BROWN & CANFIELD, Springfield, Ill.

5000 Roses Must Go.

AMERICAN BEAUTY, LA FRANCE, PERLE, SUNSET, MERMET, AND BRIDE,
from 3½, 4 and 5-inch pots. This stock is in fine shape outside in frames; perfectly healthy.
I will exchange for other stock, or best cash offer.

ROSCOE SAUNDERS, Aurora, Ill.

THE WONDERFUL NEW ROSE

"CRIMSON RAMBLER."

"300 BLOOMS ON ONE SHOOT."

Fine plants from 2½-inch pots now ready.

\$20 PER 100 TO THE TRADE.

Descriptive circular and handsome colored plate free.

ELLWANGER & BARRY,

Mt. Hope Nurseries, Rochester, N. Y.

Roses. Roses. Roses.

Perle, Niphotos, Mermet, Bride, Victoria, Meteor, La France, Albany, Gontier, White La France, Soupert and Bridesmaid, 2 1-2 inch pots, \$5.00; 3-inch pots, \$6.00 per hundred.

AMERICAN BEAUTY, 2 1-2 inch, \$6.00; 3-inch, \$8.00 per hundred.

THIS STOCK IS WELL GROWN AND IN FINE CONDITION.

ESTATE OF M. A. HUNT, Terre Haute, Ind.

100,000 PANSIES BROWN'S SUPERB PANSIES

READY NOW FOR PLANTING.

Grower of all the leading variety, the ne plus ultra in pansies. For size and form it seems hardly possible to produce anything more perfect and superfine (most light colors).

By mail, 75c. per 100; Liberal discount will be allowed on large orders.
Free by express, \$5.00 per 1000. Cash with order.

PETER BROWN, 721 Marietta Avenue, LANCASTER, Pa.

PANSIES...

Every Florist Claims the Best.

I am willing to have mine tested alongside of any in the market. Over a thousand florists used them last season, were pleased with them and made money out of them.

Have any quantity of fine plants ready now. They can not be offered in competition with cheap grown seed, but quality considered, are remarkably cheap at the price.

By Mail or Express, prepaid, 75c. per 100; by Express at your expense, \$5.00 per 1000. A Liberal discount will be allowed on large orders.

ALBERT M. HERR, L. B. 496, Lancaster, Pa.

Pansies, GIANT Pansies.

STRONG PLANTS.

Prepaid by mail.....75c. per 100

Prepaid by express.....\$3 50 per 1000

CASH WITH ORDER.

WALKER BROS., Columbiaville, Mich.

EXTRA PANSY SEED.

MAMMOTH SUNBEAM STRAIN.

A grand collection of giant flowering varieties; no finer offered anywhere; highly praised by my customers. Trade pkt., 500 seeds, 25c; 3 pkts. 60c; 6 pkts. \$1.00.
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Marie Louise Violets.

5000 strong clumps, free from disease, for cash with order \$5.00 per 100; \$40.00 per 1000.

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BUTTERCUP CARNATION..... 6 to 8c
PRIMROSES, assorted, 2½-inch..... 4c
" " " 3-inch..... 5c
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For particulars, see next week.

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Mention the American Florist when writing to advertisers on this page.

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The JENNINGS STRAIN of high grade Pansy Seed. New crop now ready. Saved with special care from only the very finest varieties and warranted first-class in every respect.

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The cream of Pansies. Grand colors mixed, pkt., 1500 seed, \$1.00; 1 oz. \$5.00.

The Jennings Strain, finest mixed, pkt. \$1.00 about 2500 seed; 1 oz. \$5.00; 3 ozs. \$15.00. No skim milk in this strain. (They are just as good as I can make 'em). To my old patrons I would say they are a big improvement over last season—more variety and finer colors. The best strain for florists either for winter bloom or spring sales; all large flowering.

Finest Yellow, black eye.....pkt., 2500 seed, \$1.00
All my own growth of 1894. Half pkts. of any of the above 50c. Please send money orders or registered letter. Cash with order.

CARNATIONS.

10,000 fine field-grown plants; best varieties. Prices on application. Address

**E. B. JENNINGS, Wholesale Pansy Grower,
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NEW CROP NOW READY. Very fine mixture of large flowering varieties and choice colors, especially selected for florists' use. 1 oz. \$3.00.

NEW GIANT PRIZE PANSY, finest strain in the market. 1 oz. \$5.00.

Low prices on Liliun Harrisii, Longiflorum, Roman Hyacinths, Lily of the Valley, etc.

Special low prices on Rustic Baskets.

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Near Long Island Ferry, NEW YORK.

ZIRNGIEBEL GIANT PANSIES.

GIANT MARKET STRAIN,
\$1.00 per 100; \$5.00 per 1000.

**DENYS ZIRNGIEBEL,
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Pansies Worth Raising.

STRONG PLANTS.

Prepaid by mail.....\$1.00 per 100
At your expense by express.....\$5.00 per 1000
Extra quality new Seed, ¼ ounce, \$1.00; 5 packages, \$4.00. Large quantities at special prices. Cash with order.

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Subscription \$1.00 a Year. To Europe, \$2.00.

Advertisements, 10 Cents a Line, Agate;
Inch, \$1.40; Column, \$14.00.
Cash with Order.

No Special Position Guaranteed.

Discounts, 6 times, 5 per cent; 13 times, 10 per cent;
26 times, 20 per cent; 52 times, 30 per cent.
No reduction made for large space.The Advertising Department of the AMERICAN
FLORIST is for Florists, Seedsmen, and dealers in
wares pertaining to those lines ONLY. Please to
remember it.

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

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

Address THE AMERICAN FLORIST CO., Chicago.

Coming Exhibitions.

- WAYNE, PA., Oct. 30-31. Fall exhibition Wayne Hort. Society. John G. Gardner, Supt., Villa Nova, Pa.
- CHICAGO, Nov. 3-11. Chrysanthemum show Hort. Society of Chicago. W. C. Egan, Sec'y, 620 Dearborn Ave.
- NEWPORT, R. I., Nov. 6-8. Chrysanthemum show Newport Hort. Society. Alex. MacLellan, Sec'y, Ruggles Ave.
- BOSTON, Nov. 6-9. Chrysanthemum show Mass. Hort. Society. Robt. Manning, Sec'y, Horticultural Hall.
- PITTSFIELD, MASS., Nov. 6-9. Chrysanthemum show Berkshire County Gardeners' and Florists' Club. W. M. Edwards, Sec'y, 103 Howard St., Pittsfield.
- ST. LOUIS, MO., Nov. 6-9. Chrysanthemum show St. Louis Florists' Club. E. Schray, Sec'y, 4101 Pennsylvania Ave.
- INDIANAPOLIS, IND., Nov. 6-10. Chrysanthemum show Society of Indiana Florists. W. G. Bertermann, Sec'y, 37 Massachusetts Ave.
- PHILADELPHIA, PA., Nov. 6-10. Chrysanthemum show Pennsylvania Hort. Society. D. D. L. Farson, Sec'y, Horticultural Hall, Broad St.
- LOUISVILLE, KY., Nov. 6-10. Chrysanthemum show Louisville Florists. H. Nanz, Sec'y, 582 Fourth Ave.
- DENVER, COLO., Nov. 7-10. Chrysanthemum show Denver Florists' Club. Adam Kohankie, Sec'y, L.B. 375, So. Denver, Colo.
- PROVIDENCE, R. I., Nov. 8-10. Chrysanthemum show Rhode Island Hort. Society. C. W. Smith, Sec'y, 61 Westminster St.
- MONTREAL, NOV. 12-14. Chrysanthemum show Montreal Gardeners' and Florists' Club. Fred Bennett, Sec'y, 82 Aylmer St.
- BALTIMORE, NOV. 12-17. Chrysanthemum show Gardeners' Club of Baltimore. Wm. McRoberts, Jr., Sec'y, 304 W. Madison St.
- WORCESTER, MASS., NOV. 13-15. Chrysanthemum show Worcester County Hort. Society. Edw. W. Lincoln, Sec'y.
- MILWAUKEE, WIS., NOV. 13-16. Chrysanthemum show Milwaukee Florists' Club. A. Klokner, Sec'y, 219 Grand Ave.
- TORONTO, ONT., NOV. 13-16. Chrysanthemum show Toronto Gardeners' and Florists' Ass'n. A. H. Ewiug, Sec'y, 85 Carlton St.
- SAN FRANCISCO, NOV. 15-17. Chrysanthemum show California State Floral Society. Mrs. T. L. Walker, Sec'y, 2549 Piedmont Ave., Oakland, Cal.
- MOBILE, ALA., NOV. 15-17. Chrysanthemum show Mobile Chrysanthemum Club. Miss Mollie Irwin, Sec'y.
- SPRINGFIELD, MASS., NOV. —. Chrysanthemum show Hampden County Hort. Society. W. F. Gale, Sec'y, 23 John St.
- HAMILTON, ONT., NOV. —. Chrysanthemum show Hamilton Agric. Society. Walter H. Bruce, Sec'y.
- FREDERICK CITY, MD., NOV. —. Chrysanthemum show Frederick County Floricultural Society. C. E. Kemp, Sec'y.

[Secretaries will confer a favor by supplying dates as soon as decided upon. We shall be glad to know of any further shows decided upon and not included in our list, even if exact date is not yet determined.]

OBITUARY.

Mrs. M. A. HUNT, widow of the late treasurer of the Society of American Florists died at her home in Terre Haute, Ind., Monday morning, September 10. She had been failing for some time and the Thursday preceding her death was found in an unconscious condition from which she never revived. The funeral was held on Tuesday, September 11, and the remains, together with those of Mr. Hunt, were taken east, to be interred at Sunderland, Mass.

CORBREY & McKELLAR,

Wholesale and Commission Florists,

Phone Main 4508.

64 & 66 Wabash Ave., CHICAGO.

We are prepared to fill your orders with First-Class Flowers.
Give us a trial order.**FOR DECORATING, NOTHING CAN EQUAL****ASPARAGUS PLUMOSUS NANUS.****CUT STRINGS 8 TO 12 FEET LONG, 50 CTS.**

Shipped in large or small quantities to any part of the country. Orders by mail, telegraph or telephone.

W. H. ELLIOTT, Brighton, Mass.**Hardy Cut Ferns,****BOUQUET GREEN,**

Laurel and Green Festooning, Wreaths, Etc.

SPHAGNUM MOSS IN ANY QUANTITY.

H. E. HARTFORD, 18 Chapman Place, BOSTON.**August Rölker & Sons****AUCTION ROOMS,**

205 Greenwich Street, NEW YORK.

Sales every Tuesday and Friday during September and October.

Palms sold on Tuesdays only.

The Rose Growers Standard**SHIPPING BOXES**

Frank L. Moore, Chatham, N. J.

Cycas Leaves. FRESH CUT

each 75c.

VAUGHAN'S SEED STORE, P. O. Box 688, Chicago.

ADVERTISERS—Please note that the day for mailing the AMERICAN FLORIST has been changed from Thursday to Saturday and that advs. may now reach us as late as Thursday morning and secure insertion in the issue of the same week.

WAYNE, PA.—The Wayne Horticultural Society will hold its fall exhibition October 30 and 31. Copies of the premium list may be had by addressing the superintendent of the exhibition, Mr. John G. Gardner, Villa Nova, Pa.

FREDERICK CITY, MD.—The Frederick County Floricultural Society has issued the premium list for its fourth annual chrysanthemum show, to be held next November. Copies may be had by addressing the secretary, Mr. C. E. Kemp, Frederick City, Md.

PEABODY, MASS.—It will be a relief to the many friends of Mr. J. M. Ward to learn that the report of his recent death was false, although it appeared in one of the Boston daily papers. Mr. Ward is very much alive, and is to be congratulated as one of the few privileged to read their own obituaries.

ALTOONA, PA.—The assistant superintendent of the Pennsylvania Railroad Landscape Department, Mr. H. Hansen, formerly head gardener of Indiana Soldiers' and Sailors' Orphans' home at Knightstown, Ind., was married on the 5th of September to Miss Fanny Engherg of Philadelphia, Pa. At present he is on a wedding tour by the seashore. He will reside here.

**FOLDING PAPER BOXES for CUT Flowers.**

Made from Water-proofed, Double Manilla lined, Strawboard. Shipped flat, packed 100 in a crate.

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A complete line of Wire Designs.

Watch this Space!**We will quote SOMETHING GOOD in the near future.****We sell only to the trade at Wholesale Prices.****Better not let your customers read your Florists' Trade Papers.****S. O. STREBY,**

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UPPER SANDUSKY, OHIO.

CUT SMILAX.

15 cents per String.

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SEEDS, BULBS AND ALL
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WHOLESALE CUT FLOWERS,

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We are Headquarters for the leading varieties of
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CUT FLOWERS OF ALL KINDS

HEADQUARTERS FOR SMILAX.

Fine crop now ready, per 100 \$10.00;
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We are prepared to fill your orders with first-class
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Wholesale Markets.

Cut Flowers.

	NEW YORK, Sept. 18.
Roses, average stock.....	1.00@ 3.00
" Beauty.....	1.00@ 5.00
" " Fine selected.....	10.00@20 00
" Meteor, Testout.....	2.00@ 4.00
" Kalserin.....	2.00@ 5.00
Carnations, colored.....	.50@ 1.00
Asters, white.....	.75@ 1.50
" finest blooms.....	1.00@ 2.00
Sweet peas.....	.05@ .10
Valley.....	3.00
Gladioli.....	1.00
Smilax.....	8.00@10.00
Asparagus.....	25.00@35.00
Adiantum.....	.75@ 1.00

	BOSTON, Sept. 18.
Roses.....	1.00@ 3.00
Carnations.....	.75@ 1.00
Asters.....	.25@ .35
Gladioli.....	1.00@ 2.00
Japan lilies.....	2.00@ 4.00
Valley.....	3.00@ 4.00
Tuberose.....	.50@ .75
Stephanotis.....	1.00
Adiantum.....	.75@ 1.00
Smilax.....	12.00@15.00
Asparagus.....	50.00

	PHILADELPHIA, Sept. 19.
Roses, small.....	2.00
" large teas.....	3.00@ 4.00
" Beauties.....	6.00@ 8.00
Carnations.....	.75@ 1.00
Valley.....	4.00
Smilax.....	12.00@15.00
Asparagus.....	35.00@50.00
Asters.....	.75@ 1.00
Gladioli, per 100 stalks.....	\$1.00
Tuberose.....	3.00
Violets (single), 100 bunches.....	\$5.00
Cattleyas.....	35.00@40.00
Sweet peas.....	.25@ .40
Adiantum.....	.75@ 1.00

	CHICAGO, Sept. 20.
Roses, La France, Meteor.....	3.00@ 4.00
" Beauty.....	8.00@15.00
" Kalserin.....	3.00@ 4.00
" General assortment, per 1000.....	\$.50@1.00
Carnations, long.....	.25@ .60
" fancies.....	1.50@ 2.00
Auratum lilies.....	6.00@ 8.00
Asters.....	.50
Sweet Peas.....	.10@ .50

	ST. LOUIS, Sept. 20.
Roses, Perles, Niphotos, Wootton.....	2.00@ 3.00
" Bride, Mermet, Bridesmaids.....	2.00@ 3.00
" Meteors.....	2.00@ 3.00
" La France, Albany, Hoste.....	2.00@ 3.00
" Beauty.....	5.00@15.00
Sweet peas.....	.15@ .25
Carnations, long.....	.50@ .75
" short.....	.50
Adiantum.....	1.25
Hollyhocks, asters.....	.50

	BUFFALO, Sept. 17.
Roses, Beauties.....	10.00@15.00
" Mermet, Bride.....	4.00@ 6.00
" Perles, Gontier, Hoste.....	3.00@ 4.00
" Meteors.....	4.00@ 6.00
Carnations, long.....	1.00@ 1.25
" short.....	.60@ .75
Valley.....	3.00
Adiantum.....	1.25
Smilax.....	15.00@20.00
Asparagus.....	50.00

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Successor to PECK & SUTHERLAND,
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FLORISTS

JOBBERS IN
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SUPPLIES,

METS, **FLORISTS'**
BRIDES, **VASES.**

GONTIERS,
CARNATIONS,
ALWAYS ON HAND.

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HORTICULTURAL AUCTIONEERS.

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Wholesale Florist

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Mention American Florist.

THE LEADING FAVORITES:

American Beauty,
Bridesmaid,
Meteor,
Testout,

And all other desirable roses, grown especially for first-class trade.

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SPRING, SUMMER,
AUTUMN, WINTER.

In dull season and busy season.
All the year round.

Roses, Lily of the Valley

and all other choice stock
can be obtained of

THOS. YOUNG, Jr.,

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WALTER F. SHERIDAN,

WHOLESALE

FLORIST,

32 West 30th Street, NEW YORK.

Roses Shipped to all points. Price list on application.

Edward C. Horan,

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WHOLESALE • FLORIST.

Careful Shipping to all parts of the country.
Price list on application.

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FINE ROSES

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FLORIST,

111 WEST 30TH STREET,

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Established 1879.

The Seed Trade.

AM. SEED TRADE ASSOCIATION.

D. I. BUSHNELL, St. Louis, president; S. E. BRIGGS Toronto, 1st vice-president; A. L. DON, 114 Chambers street, New York, secretary and treasurer.

VINE SEED reports are more favorable.

AMERICAN WONDER peas are expected to be as scarce as last year.

THE Michigan bean crop in the eastern section is turning out better than was first anticipated.

THE *Market Gardener and Trucker* is the name of a new monthly journal to be published October 1 in Minneapolis.

NEW YORK.—The bulb trade is looking up. Retail and wholesale orders are coming in with gratifying rapidity and a healthy condition is noted generally.

THE FALL retail trade in bulbs is reported generally to be fairly good with hopes for improvement when settled cooler weather sets in and frosts make way with the summer flower beds.

Worcester, Mass.

That trade is improving slightly is beyond a doubt, but the change goes on so slowly that it is hardly noticeable; everything is plentiful, with the possible exception of good carnations, so plentiful in fact that most of it goes into the dump. The condition of business as a whole is not very encouraging.

The horticultural exhibition on the 13th was very successful and drew a large attendance, the quality of the exhibits in general was very satisfactory and the competition keen enough to make it interesting. The winners of first and second premiums were as follows: Cut flowers, twenty vases, distinct varieties, H. B. Watts, first, F. A. Blake, second; gladiolus display, H. B. Watts, first, F. A. Blake, second; pansy stand, Ed. Hall, first, F. A. Blake, second; dahlia, single, twenty vases, J. A. Abbott, first, A. A. Hixon, second; geranium display, no duplicates, F. A. Blake, first, A. A. Hixon second. Four premiums were awarded in each class and a number of good exhibits not called for by the schedule were awarded gratuities.

SEEDLING.



Mention American Florist

Write for Wholesale List.
MICHEL PLANT AND BULB CO.,
ST. LOUIS, MO.

ERNST RIEMSCHEIDER, Altona, Hamburg
LILY OF THE VALLEY PIPS, BULBS - SEEDS
CATALOGUES FREE - CHOICE ETC.
SOLE AGENTS FOR U.S. AMERICA & CANADA
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Complete in **Bulbs, Plants, Seeds and Supplies, Chrysanthemums and Cannas.**

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Address
AUG. RHOTERT, 26 Barclay Street,
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Catalogues free on application.
NOVELTY LIST NOW READY.

BULBS. BULBS. BULBS.

In lots of 200 in one or of several sorts we furnish DELIVERY INCLUDED, and sound Bulbs guaranteed on arrival.

AURATUM,	7-9,	per 100,	\$4.00
"	9-11	"	5.50
"	11-12	"	8.00
SPECIOSUM Rubrum,	8-9	"	5.00
"	9-11	"	8.00
"	11-13	"	9.00
"	Album,	8-9	8.00
"	9-11	"	10.00
LIL. LONGIFLORUM,	7-9	"	5.00
"	8-10	"	4.00

ORDER AT ONCE. Orders now booked for Cycas revoluta stems. Delivery February to May. Send for our new Catalogue. Interesting and novel.

H. H. BERGER & CO.,
(Established 1878.) SAN FRANCISCO, CAL.

SPECIALTY
of Colored and Natural
IMMORTELES.

Immortelle Wreaths of every dimension.

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OLLIOULES, var., FRANCE.

I do not fill the orders containing less than 1000 bunches. Prices reduced, and samples free by mail. English correspondence.

Our New List of
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and Autumn Sowing Seed is now ready, and will be mailed free to applicants.

August Rölker & Sons
New York, 136 W. 24 Street,
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FOR SALE
for immediate delivery:
FIRST QUALITY LILY of the VALLEY,
BERLIN PIPS, from cold storage.
C. H. JOOSTEN,
3 Coenties Slip, NEW YORK.
IMPORTER OF BULBS AND PLANTS.

WE SELL BULBS
Special low prices to
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WEEBER & DON,
Seed Merchants and Growers.
114 Chambers Street, NEW YORK.

LILY VALLEY.
From cold storage, finest quality, \$7.00 per 1000
LIL. LONGIFLORUM.
5-7 inches.....\$2.50 per 100; \$20.00 per 1000
BERMUDA FREESIAS.
2 1/2-inch.....\$2.00 per 1000
H. G. FAUST & CO.,
64 & 66 N. Front Street, PHILA., PA.

TULIPS
ALMOST GIVEN AWAY.

Inches high.	Sgt. Early.	
7 1/2	"	ARTUS, red.
7 1/2	"	ARMS OF LEIDEN, rosy.
8	"	BACCHUS, scarlet.
8	"	CARDINAL'S HAT, scarlet.
8 1/2	"	CHRYSOLOHA, yellow.
9	"	COULEUR PONCEAU, rosy.
7 1/2	"	COMMANDANT, cardinal.
8 1/2	"	DUC VAN THOL, scarlet.
7 1/2	"	DUCHESS DE PARMA, orange.
8	"	DUC NEWKERK, red and yellow.
8	"	JOCHT VAN DELFT, white.
10	"	JULIUS JANIN, carmine.
9	"	JOSEF VON VONDEL, pink and red.
9	"	KEMERSKROON, red and yellow.
7 1/2	"	L'IMMACULEE, white.
7 1/2	"	L'A REINE, white.
8 1/2	"	L'INNOCENCE, rosy.
8 1/2	"	PRESIDENT LINCOLN, rosy.
7 1/2	"	ROSA MUNDI, rosy.
9 1/2	"	RACHEL KREIS, rosy.
8 1/2	"	STANARD SILVER, red & white.
8	"	VERBOOM, scarlet.
8	"	VESTA, white.
8	"	WOUVERMAN, purple.
6	"	WHITE SWAN, white.
9	"	YELLOW PRINCE, yellow.
11	Sgt. late.	GESNERIANA, scarlet.
11	"	GLORIA SOLIS, red and yellow.
12	Dbl. late.	BLANC BORDE, purple.
14	"	FEU SUPERBE, scarlet.
15	"	PURPLE CROWN, carmine.
14	"	YELLOW ROSE, yellow.
7 1/2	Dbl. early.	COUSINE, violet.
9 1/2	"	DUCKE OF YORK, red and white.
11	"	GLORIA SOLIS, red and yellow.
8 1/2	"	LA CANDEUR, white.
8 1/2	"	LADY GRANOISON, scarlet.
8 1/2	"	TOURNESOL, red and yellow.
8 1/2	"	REX RUBRORUM, scarlet.
7 1/2	"	QUEEN VICTORIA, scarlet.

Above collection of 40 beautiful sorts 11 Bulbs.
Per 1000 \$ 8.00 Per 5000.....\$19.00
Per 2000 14.00 Per 6000..... 30.00
CASH WITH ORDER.

HULSEBOSCH BROS.,
ENGLEWOOD, N. J.

Mention American Florist.

The United Lily of the Valley growers
of Schleswig-Holstein, Germany,
OFFER

Lily of the Valley Pips,
1st quality, warranted, at low prices
f. o b Hamburg.

Communications and orders address to
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READY NOW.

	Per 100	Per 1000
Illium Harrisii, 7-9 inches.....	\$2.75	\$25.00
Paper White Grandiflora.....	1.25	10.00
English Milttrack Mushroom Spawn, per lb. 10c; per 100 lbs. \$8.00.		
Just received, a large consignment of Black Callas, extra size, \$10.00 per 100.		
Metal Designs and Florists Baskets. Special price list on application.		

CHAS. SCHWAKE,
404 E. 34th Street, NEW YORK.

BULBS. Best Quality.

	Per 100	Per 1000
Roman Hyacinths, 12 to 15 ctm.	\$2.25	\$20.00
Narcissus, P. W. grandiflora, sel.	1.25	10.00
L. Harrisii, 5-7	2.75	22.50
L. Caudium, select.	3.00	25.00
Freesias, 1st size.	.60	5.00

Full line Dutch Bulbs. Write for prices.
BROWN & CANFIELD, Springfield, Ill.

Siebrecht & Wadley,

ROSE HILL NURSERIES,

NEW ROCHELLE, N. Y.



Palms,
ORCHIDS,
Roses,

and New Plants.
FRESH DRACAENA CANES NOW READY.

ONION SEED.



CROP 1894.

Prices for New Crop
made on Application.

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411, 413 & 415 Sansome Street,

SAN FRANCISCO, CAL.

NOVELTY.

New, Semi-Double, Large
Flowering

WHITE MARGUERITE

(Chrysanthemum frutescens.)

Size of flowers 4 inches in diameter, petals
clear white, center yellow.

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SPIRÆA COMPACTA GRANDIFLORA.

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Ready for shipment from July to September.

Calla Aethiopica, fine dry roots in all sizes.
Lil. Longiflorum, ready for shipment from October
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Lil. Auratum, Spec. Rubrum and Album, Etc.
Iris Kæmpferi, in 100 choice varieties.
Japanese Maples, in best varieties.
Camellias, Pæonies, Tree Ferns, Raphis, Cycas
Revoluta, superb growing plants with fine foliage
from 25 cents to \$5 each; fresh imported stems,
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New & Rare Foliage & Flowering Plants.
A grand selection for Stove, Greenhouse and Con-
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Fungus Growth.
What does?
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Nice plants from open ground,
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Choice Florist Seeds.

Pansy, Calceolaria, Primula, Cineraria,
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Specia. quotation on BULBS.

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The Universal
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Smilax Plants Cheap.

Out of 2 and 3-inch pots, also transplanted plants
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Sample order 10 cts. Terms strictly cash.

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Special and Hardy Water Lilies of all colors.
VICTORIA REGIA and V. RANDI, EURYALE FEROX.
Nelumbiums in variety, Hardy Ornamental plants,
sub-aquatic plants, etc., etc. Nymphaea Laydekeri
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Other Columbian Novelties see catalogue.

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TOBACCO DUST. Per 10 lbs 50c; 25 lbs \$1.00;
50 lbs \$1.50; 100 lbs \$2.50.
Extra fine, per 100 lbs. \$5.
Sample FREE.

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Cincinnati.

Mr. R. H. Warder, superintendent of our parks, deserves credit for the handsome beds of cannas and a bed of salvia that may be seen from the Walnut Hills cable at Elsinore entrance. Mr. Warder is the first park superintendent who has accomplished much in the way of beautifying the parks of Cincinnati. Thousands of people each year attend the band concerts held in Burnet Woods and Eden Park and many complimentary remarks can be heard on all sides regarding the flowers. The Lockland Lumber Co. is now erecting in Eden Park, three greenhouses 100x20 for the use of the parks; this is only a starter and we trust it will only be a short time before we will see a large range of glass, and see all of our parks as handsome as those of Chicago and St. Louis. The larger portion of the money appropriated for park purposes in Cincinnati has been spent in constructing sewers and underdraining. Now that is done, and we trust a larger amount will be devoted to flowers and shrubbery, thereby cultivating the taste of the people for them. Superintendent Warder will plant several large beds of tulips and hyacinths this fall.

Business is still picking up and as the rain has been quite generous of late, thus supplying our florists who have been hauling water, we shall expect to see stocks getting better also. Our carnationists can now lift their plants.

Robt. J. Murphy, who has nine large houses, tells me he will build another this fall, as he is crowded for room. Wm. Murphy is doing likewise.

Fred. J. Lodder of Hamilton, O., has leased the Oakley Rose Houses, formerly managed by Chas. S. Mitchell and will run same for the next two years. He will grow vegetables principally and some flowers.

S. L. Galloway of Terrace Park, O., who has been sick for the last nine months was able to come to the city last week. Mr. Galloway has been in the florist and nursery business for the last 25 years and grows a general stock which he sells to the retail stores.

Wm. Jones of Newport, Ky., has given up the florist business and gone back to his old trade, watch making. C. J. Jones, Jr., will now manage the business.

Chas. Witterstaetter, brother of "Dick," died on the 13th inst. of a complication of diseases. Mr. W. was more of a vegetable than a flower grower; he leaves a wife and several children.

John and Wm. Hartje of Indianapolis are in the city, called here by the death of their mother. G.

VIOLETS.

Marie Louise,

strong, field grown plants. Healthy stock.

ANDREW WASHBURN, Bloomington, Ill. Mention American Florist.

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Offers to the trade only good plants.

10,000 Araucaria excelsa; 50,000 Azaleas indica; 20,000 Azaleas mollis; 150,000 Begonias and Gloxinia Bulbs, best varieties; 100,000 Palms, clean plants, all sizes; 10,000 Sweet Bays, standards and pyramidals. CASH WITH ORDER.

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CYCLAMEN, 3-inch.....\$7.00 per 100
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BEGONIA VERNON, very bushy, in flower, 2 1/2-inch.....3.00 per 100
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Ornamental and Bedding Plants from Wilson of Astoria, Wednesday, September 26.

Splendid Palms, Rubbers, etc., from Harris of Philadelphia, Saturday, September 29, 10 o'clock.

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Large, well-grown plants from 4-inch pots. Will sell them cheap. Write for prices and description.

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500 WHITE WINGS	5 00
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1000 HINZE'S WHITE	5 00
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The new Carnation; pure white, delicately marked with red.

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 \$5 per 100; \$48 per 1000.

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WM. SCOTT, MRS. E. REYNOLDS	\$8 00
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CYCLAMEN, 3 1/2-inch pots	6 00
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500 LIZZIE MCGOWAN, at \$7.00 per 100.
 1000 MARIE LOUISE VIOLET plants, fine, at \$7.00 per 100.

Also an extra fine strain of PANSIES—plants. This strain has been carefully selected from a number of the choicest strains. It is a No. 1. Plants for flowering this winter. \$1.00 per 100; \$8.00 per 1000. Small plants for spring trade, \$5.00 per 1000.

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DAYBREAK, TIDAL WAVE, SILVER SPRAY.
 VIOLETS: MARIE LOUISE.

Ready now. Write for prices. No orders for less than 100 plants accepted.

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Sweetbrier Carnation.

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Other varieties on application.

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Strong and healthy plants, pot-grown, in 3-inch pots.

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TESTED and

NEW CARNATIONS.

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MARIE LOUISE VIOLETS, from 2-inch pots, \$3 per 100; \$25 per 1000. TERMS CASH WITH ORDER.

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Carnations a Specialty

Rooted Cuttings and Young Plants sold out. Nice Field-Grown Plants in Sept. Send for prices.
 GEO. HANCOCK & SON, Grand Haven, Mich.

Buffalo.

The last meeting of our club was held in the spacious wholesale warehouse of D. B. Long. The meeting was well attended, for there were matters of considerable interest to bring up. The contingent of stay-at-homes wanted to hear all about the convention, and all of those who were lucky enough to have been at Atlantic City were quite willing to give them a lengthy account. On a sideboard was a display of trophies, corkscrew and all, a very visible evidence that someone had been on a visit. The team who won the prizes handed them over to the president of the club, who in turn placed them with the treasurer of the club for safe keeping, with instructions to have them insured for their full value. There is little fear but what Buffalo will turn out very strong at Pittsburg. It's early yet to talk about it, but there are already signs that the delegation will be a large one.

Mr. S. A. Anderson read a very interesting paper on "Our summer trade." The advice it contained was most excellent, but as it was getting late no discussion occurred.

Our patrons are coming home from the seaside and mountains, and there is a decided pick-up in business. Roses, except Meteor and Beauties, are hardly up to the right quality yet. Carnations are of course quite scarce now, but soon there will be any amount. There is an enormous quantity of Daybreak planted in this neighborhood; hope it won't be overdone. What with two months' drouth and grasshoppers, carnations are nothing like the quality they were a year ago. Wm. Scott and Portia seem to have stood the long dry spell fairly well, while Lizzie McGowan is very small. Since the dry time broke up we have had frequent and copious rains, and changed the surface of parks and cemeteries from a burnt up brown to a refreshing green.

I have not visited the large establishment of W. J. Palmer & Son for some time, but I am told on the best authority that his rose houses are magnificent; a house of Meteors is so large, grand and productive that it is with difficulty that W. J. P. senior can be persuaded to leave it even for his meals.

Since the convention we have had Mr. Walter Mott and Mr. J. S. Taplin of New York with us. W. S.

THE KINNEY PUMP.



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Every florist, market gardener, owner of lawn, grass-plot or flower-bed, in fact everyone who has a faucet and hose should have the Kinney Pump (patent applied for) for applying liquid manure, fungicides and insecticides to plants. Feed your plants, fertilize your lawns by using liquid manure. The cheapest, simplest and most scientific spraying pump in use. Sent prepaid for \$2.50—spraying valve attachment 50c. Pump complete \$3.00. Send for circular. Address

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BY NO POSSIBILITY

can plants be overheated or chilled where they are used, as they make ventilating sash more sensitive to change in temperature than the most sensitive thermometer. TRY THEM.

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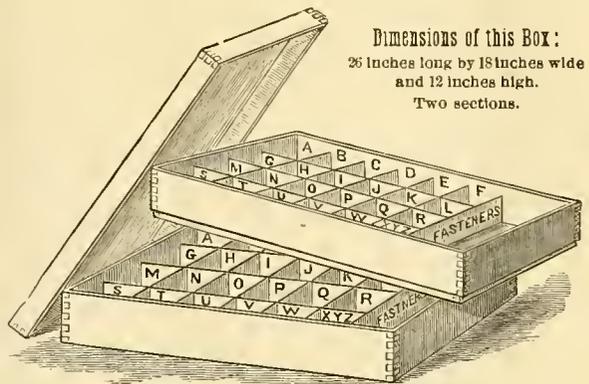
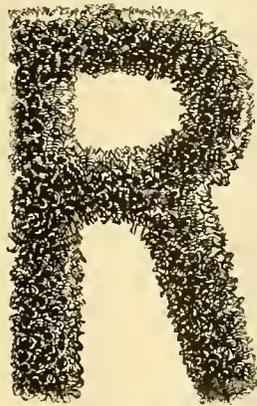
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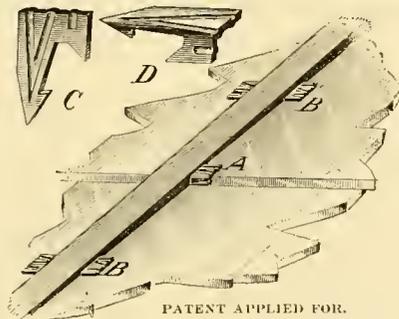
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Galt, Ont.

The Horticultural Society's show was held here on the 5th and 6th inst. There was a large increase in the number of entries over previous years, more than 600 being made. Nearly all the prizes offered were taken. The new scheme of giving plants to school children to grow for exhibition was not altogether a success, although some of the plants showed that they had been well attended to. The scheme failed to bring the expected crowds and the hoped for balance was on the wrong side of the sheet. Messrs. Brooks of Fergus, Townsend of Hamilton and Gilchrist of Guelph, acted as judges to the satisfaction of all. There being no florists' club here the boys all make a point of meeting at this annual show and there was a general good time among them.

At the meeting of the society last Thursday there was a lively time, every one being in good humor, especially D. Allan, Brown and McGeorge. A still small voice whispered something about a chrysanthemum show, there is only the whisper at present but the stuff is here in abundance to make a good show.

Alex Comons is putting up another house 30x60 feet, a good sign that his trade is increasing.

A. Walker of the Royal Bulb Co., has changed his mind and taken a situation as drummer in another line of business.

Trade dull, weather June like, rain came late but was welcomed by all. MAC.

Topeka, Kans.

The florists of this city held a meeting on the evening of September 10, at which time the Society of Topeka Florists was formed for mutual benefit, social privileges and better maintenance of prices for our products. Mr. Keith of T. E. Keith & Co. (the oldest florist in the business in this city) was elected president and W. L. Bates of the Bates Floral Co. was elected secretary. It was decided to hold a meeting on the first Monday of each month through the winter for the purpose of considering such business as may come before it. W. L. BATES, Sec'y.

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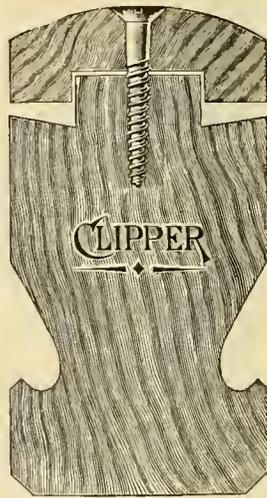
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Announcement to Florists.

We desire to announce the dissolution of the firm of Sipfle Dopffel & Co., and to introduce to the trade its successor, The Syracuse Pottery Co., which will be under the management of William Dopffel and Conrad Breitschwerth. The business will be conducted as heretofore, except on a larger scale to meet the growing demand for our goods. We have accordingly enlarged our plant and capacity, and with unsurpassed facilities are now prepared to fill the largest order on short notice. Our latest improved machines are turning out the best and most serviceable flower pots in the market, and assuring you of our intention to lead in further improvements we solicit a continuance of your patronage in the belief that we can supply just what is needed at a price and in a manner satisfactory to all.

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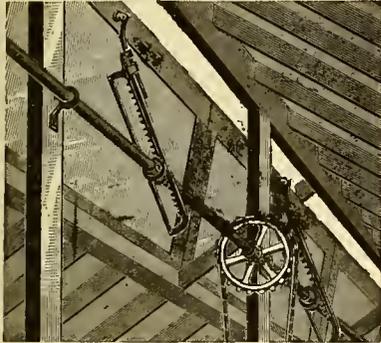
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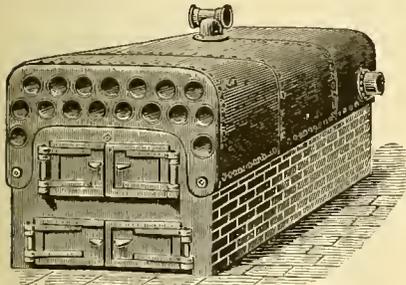
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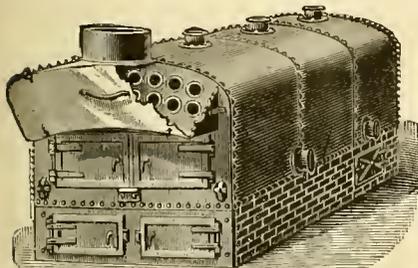
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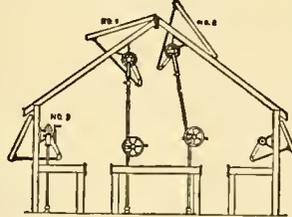
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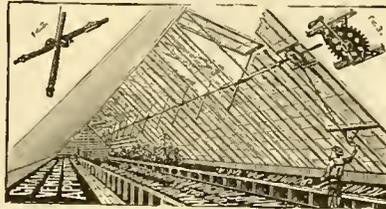
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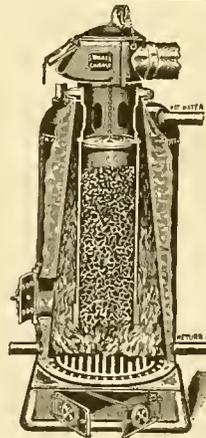
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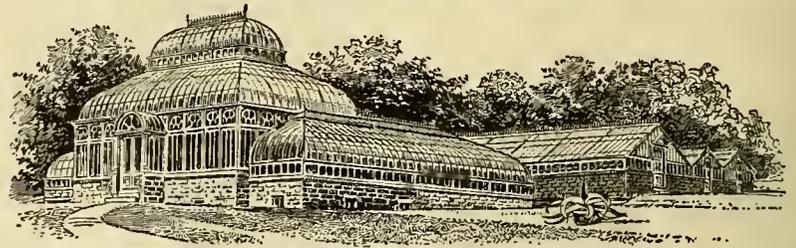
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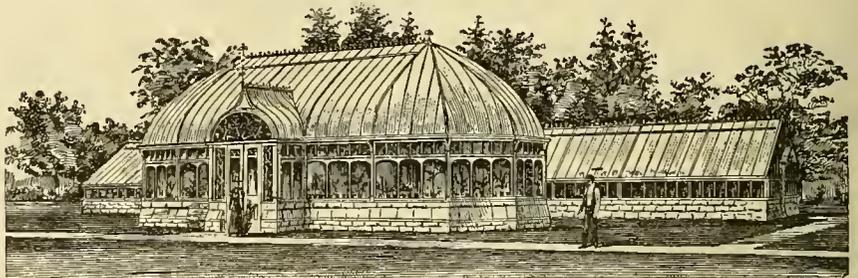
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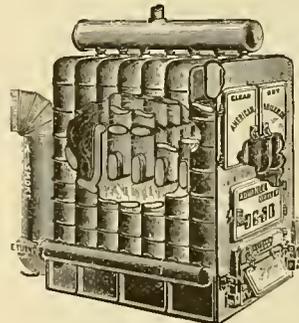
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THE AMERICAN FLORIST



America is "the Prow of the Vessel; there may be more comfort Amidships, but we are the first to touch Unknown Seas."

Vol. X.

CHICAGO AND NEW YORK, SEPTEMBER 29, 1894.

No. 330

THE AMERICAN FLORIST

Copyright 1894, by American Florist Company.
Entered as Second-Class Mail Matter.

PUBLISHED EVERY SATURDAY BY

THE AMERICAN FLORIST COMPANY,
322 Dearborn Street, Chicago.

Subscription, \$1.00 a year. To Europe, \$2.00.

Address all communications to

AMERICAN FLORIST COMPANY,
P. O. Drawer 164, CHICAGO.

Eastern Office: 67 Bromfield St., Boston.

This paper is a member of the Associated Trade Press and the Chicago Trade Press Association.

SOCIETY OF AMERICAN FLORISTS.

J. T. ANTHONY, Chicago, president; ROBERT KIFT, Philadelphia, vice-president; WM. J. STEWART, 67 Bromfield St., Boston, Mass., secretary.

The new officers to be installed Jan. 1, 1895, are: EDWIN LONSDALE, Chestnut Hill, Philadelphia, president; E. C. REINEMAN, Allegheny City, Pa., vice-president; WM. J. STEWART, Boston, secretary; H. B. BEATTY, Oil City, Pa., treasurer. The 11th annual meeting will be held at Pittsburg, Pa., August, 1895.

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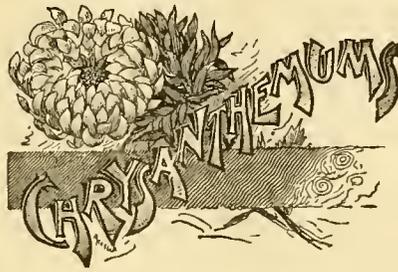
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MOUNT KISCO, N. Y.—O. V. Rodin is starting a new florist business here. He has built two houses, one 20x100 for cut flowers and bedding plants and one 11x100 for violets.

SPRINGFIELD, ILL.—Messrs. Brown & Canfield had an "opening" at their handsome new store at 209 South 5th street, September 15. A rose or carnation was presented to each caller during the day.

WE HAVE received a copy of the first issue of *Young's Magazine*, a new monthly periodical "devoted to flowers, vegetables and the household," published by W. G. Young at Latrobe, Pa.

THE illustration of *Aristolochia gigas Sturtevantii* that appeared in our issue of September 15 was engraved from a photograph taken by Mrs. Fanny Copley Seavey.



Chrysanthemum Notes.

The chrysanthemum grower who intends to have a fine lot of bloom now has his hands full of work, and there is hardly time enough in the day to suit him, for the buds are setting rapidly and should be taken as soon as possible. Don't for an instant think that when the shoots are removed from around the crown bud or the small buds that set around the terminal are rubbed out that you are through with that plant, for all the eyes in the axils of the leaves the entire length of the shoot will immediately open and put forth new shoots, and these should be removed as soon as they appear. Look all the plants over every day and rub these shoots out. Keep the plants well tied up at the top, for as the buds begin to grow larger they grow heavier and will tend to lean over and grow crooked, so as soon as the flower stalk has grown long enough to tie to the stake do so and cut the stake off just below the bud, so that it will not interfere with the flower when it begins to develop. If any of the plants have grown so tall that they look as though the blooms would touch the glass when they get in flower bend the stake over slightly where there will be more headway, but no more than seems necessary, for this will make the stem crooked.

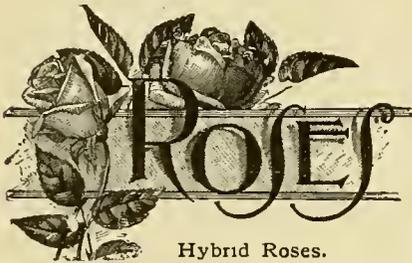
Begin now to feed regularly with liquid manure and continue until the flowers begin to unfold, and if the plants are in fine condition and are taking up the moisture in the soil, three times a week is none too much, and the manure water can be made much stronger. As soon as the manure water begins to grow weaker make up some new, for the season is beginning to get short and a weak liquid after having given them a strong is hardly any better than pure water. It has been our custom to apply liquid manure water to the plants every opportunity that we could, and we would change the liquid, using cow, sheep and then hen manure, and once a week a little nitrate of soda or nitrate of potash. On some of the varieties a few of the lower leaves may become brown or withered, and these should be removed when found. Keep the top of the bench clean of all foliage that may drop or get broken off, and of all weeds. If suckers grow up

at the base of the plant they should be carefully removed; pull them out if it can be done without injury to the roots of the plant, and if not, cut them off just below the surface of the ground.

The Chrysanthemum Society of America adopted at its meeting at Atlantic City what was considered by those present to be the most practicable way of judging seedlings and awarding certificates. In our issue of September 1 Mr. T. D. Hatfield presents a plan which is commented upon in a later issue by Mr. E. G. Hill, and the latter gentleman states that the plan adopted by the society "does not meet the requirements of the case." No one doubts that the plan presented by Mr. Hatfield, that is, to have a committee of three or five experts meet at some central point three times during the season and examine seedlings, is by far the best way to accomplish this somewhat difficult task, but there are three objections that are of great importance and that looked insurmountable to the members of the society present at that meeting. The first is to procure three or five men who are well enough posted to judge the seedlings who can afford to give the time necessary for this purpose. Nearly all of the chrysanthemum authorities are growers themselves, and at the dates at which they would have to meet are too busy with their own plants to give the time it would take to attend the meetings or to travel to reach the city where they would be held, for at the present time it would hardly be possible to find just the men wanted in any one locality. Second, the expense. It seems rather hard to look at this matter from this point of view, but nevertheless it must be looked square in the face. To get five judges in whom the growers of this country have full confidence to any central city three times inside of four weeks or to board them for that period means quite a little outlay, and if the men could be procured that would give their time we hardly believe that either Mr. Hatfield or Mr. Hill would expect them to pay their own expenses. Now the finances of the Chrysanthemum Society will not warrant this outlay, so where are the necessary funds coming from? We remember hearing a gentleman once say that he thought that the disseminators of the country would be willing to bear this expense, but even if they were, and we very much doubt that they would be, it would place the committee in a very uncomfortable position, for if they happened to award a certificate to a variety that afterward proved valueless, and they might, for no one is infallible, the cry would immediately go up that undue influence had been exerted by the disseminator of that variety, and their good name would be tarnished. The third objection is of minor importance really, and that is of getting the flowers in good con-

dition to any one city from the different parts of the country, and the necessary expense. Chrysanthemums are now raised from seed from the east to the far west, and to have them judged at any one place means a long journey for some of them, and they are apt to arrive in very poor condition after two or three days' travel. Now no committee appointed for this purpose should award a certificate on what they thought would be the capabilities of a flower which was presented before them in poor condition, but would have to judge them as they came before them. So taking the matter all in all and looking at every side of the question, we think the plan of judging in the different cities by competent men, where the flowers can be presented in a creditable shape and at scarcely any expense, the best that can be done for the present.

ELIJAH A. WOOD.



Hybrid Roses.

These should now have extra care, especially where it is desired to have them for early blooming; the heavy rains we have been having will make this imperative, as it is very hard to get them ripened when there is a large amount of rainfall, at least where they are being grown in the open air, and with many growers this is practically the only means at command for this stock. If they can be well rested it will undoubtedly give the best results, and where such is the method followed every precaution should now be taken to keep heavy rains from soaking the soil by laying the pots or boxes on their sides when indications are for rain. Should hot, dry weather follow they should be placed upright to avoid the roots getting over dried, as the plants are sure to suffer and the flower crop also when the least indication of shriveling of the wood occurs. To avoid this we have found that when the plants are getting the least over-dry a light syringing, or rather hosing with a fine rose mornings and evenings will keep the wood plump and solid for two or three weeks at a time without watering at the roots, thus getting the plants well rested and the wood thoroughly well ripened, which is the desideratum for early forcing, and will generally take from five to seven weeks, according to the condition of the weather. As soon as the wood becomes well rested, which will best be known by the plants ceasing to produce young growths, and the lower leaves assuming a pale green, though they ought to be still fresh enough to adhere to the wood, such varieties as Magna Charta, Mrs. John Laing and Ulrich Brunner are in a good condition to prune, which can be done at any time. In doing this thin out all the thin, spray-like shoots and shorten the strong ones back to where the wood is quite solid and the eyes plump.

As soon as this is done give the soil a good soaking of water, and a day or so after scrape off as much of the old soil as can be removed without injuring the roots, then replace it, filling the pots or boxes nearly full with fresh loam and well decomposed manure in about equal por-

portions. Should the weather continue mild they may be allowed to stand outdoors for a week or two longer, keeping them well syringed overhead and the roots moist; the eyes will swell very fast, and the heavy dews at night which we generally get at this season of the year will greatly aid the rapid development. But should cold weather set in lose no time in getting the plants into the greenhouse, as any check whatever after they have begun to move will be very detrimental to their future success. As soon as placed in the greenhouse they should be syringed overhead at least twice each day in fine bright weather, and sufficient water given at the roots to induce free root action. Night temperatures should be maintained at from 48° to 50° for the first three or four weeks, or till the plants get into active growth, after that gradually increase the temperature till the buds are well set, when it should be kept at 56°, and if really fine flowers are the desideratum it should never exceed this point. Give all the air reasonable on all favorable days, starting to ventilate at 62° to 64° in the morning, increasing as the temperature rises, but with plenty of air on the temperature may be allowed to run up to 75° in the middle of the day. The aim all through should be to produce fine strong healthy foliage and flowers, and a close high temperature will never do this.

The varieties named above are the best for very early forcing and if in the right condition to prune and start at once, say October 1, can be had in bloom with reasonable certainty by Christmas or January 1.

For the later crops less care is needed to rest them, as the early frosts will greatly aid the resting process, though the plants should not be allowed to stand out in very severe frost, especially if they are very wet, or the roots are apt to suffer in consequence. They should be placed in a cool greenhouse where they can be protected from storms, etc., then they can be pruned and brought into the warmer greenhouse as desired.

JOHN N. MAY.



Rare Orchids of Recent Years.

Cypripedium bellatulum egregium. This fine variety appeared several years ago among an importation of bellatulum introduced by Messrs. Low. It is an extremely beautiful and rare plant, differing from the type. It has large flowers measuring four inches across, very full, color light yellow, densely covered over the whole flower with violet colored spots. This variety has lighter green foliage, not so broad and dense as in the type. It is, like the type, rather difficult to handle if conditions are not suitable; but grown in pans and baskets suspended near the glass with plenty of drainage and good fibrous peat and live sphagnum, with plenty of heat and moisture we find no difficulty in increasing the plant; it is flowering now in September.

Laelio-Cattleya leucoglossa. This handsome hybrid was raised by Messrs. Veitch & Sons and was derived from *Cattleya Loddigesi* and *Laelio-Cattleya Fausta*, the latter itself a hybrid and the first

hybrid *cattleya* raised by Mr. Seden, which flowered in 1872 and was derived from *L.-C. Exoniensis* and *Cattleya Loddigesi*. *Leucoglossa* was raised about four years ago and received a first-class certificate from the Royal Horticultural Society, and it is well deserved. The plant is free growing, resembling in a great measure *C. Loddigesi* but more robust in habit, carrying from four to eight flowers on a spike; slightly tinged pink sepals and petals averaging about four inches across; lip broad well expanded with a large area of light yellow extending into the throat. Flowering in late August and September and lasting about one month in perfection enhances the value of this charming plant.

Cattleya Hardyana, Timperly var. This handsome *cattleya*, probably one of the most gorgeous varieties yet seen, is a natural hybrid between *Cattleya Warscewiczii* and *Cattleya Dowiana*. It flowered for the first time about eight years ago in the collection of the late Mr. Hardy, Timperly, after whom it was named. Though many forms have since that time appeared it is doubtful if any one approaches the original type. Mr. Hardy divided his plant and the late Mr. Ames procured one portion at a large price over two years ago. This variety resembles *C. Warscewiczii* in its robust growth, being more vigorous than our other forms, the individual flowers measuring over seven inches across; sepals and petals of a deep rosy purple; the lip fully three inches across and three and one half in depth; the front portion much frilled, of rich magenta; the throat and upper portion of lip rich golden yellow as in *C. Dowiana aurea*, and richly veined with deep purple. The labellum has the two eyes peculiar to *Warscewiczii*, which in this plant are a rich golden yellow margined with magenta. The flowers have much substance, strongly and sweetly scented and last about three weeks in perfection.

The variety *Amesiana* was introduced about five years ago by Mr. Sander. It differs from the first type of *Hardyana* by its dwarfer habit, partaking more after the *Dowiana* parent. The flowers are about five inches across lip, of intense magenta purple carried well into the throat; the column and side lobes richly colored. It has the two rich yellow eyes as in the first flowered type and has rich purple veining. The sepals and petals are suffused with rosy purple. While this variety has a richer and deeper colored lip it has not the quantity of rich golden area which distinguishes the Timperly form. Flowering August and September.

North Easton, Mass. W. ROBINSON.



TO PREVENT RUST.—Dissolve one pound of sulphate of copper in two quarts of ammonia in a 2-gallon jar. When dissolved add another quart of ammonia and stir well. [The liquid can be kept in this form for some time and used as needed.] Add a pint of this solution to a barrel of water and syringe the plants with a force-pump every two weeks. And don't let the time for spraying pass without attending to the operation.

Carnation Notes.

Last spring I received some Jacqueminot carnation cuttings that had rust on them, and I wanted the variety very

badly after seeing the blooms but at the same time did not want the rust. There had been considerable discussion over the plan of keeping the plants in the house all summer as a means of eradicating the rust, so I determined to try this method and have

who tried it extensively, if he would tell us the weak points in this method of culture. Not long ago I saw several houses that had been planted in all summer but they did not look very encouraging and seemed to lack constitution, being drawn up and very light in the leaf. Even with

feet long of No. 10 galvanized steel wire to each plant, these tied at the top to a wire running lengthways of the house. In summer the stakes are pulled out and packed away in bundles, thus lasting for many years.

J. H. Ladley makes use of a contrivance illustrated in the AMERICAN FLORIST some two years ago, which he briefly describes thus:

"We bend No. 14 galvanized wire to the length and width of a row of carnations crosswise of the bench, with a hook and eye to make a continuous frame; this is clamped around the row and raised



Fig. A.

found it to work well, for my plants to-day do not show any signs of rust. They were potted up, all the rust picked off carefully and the tops dipped into Bordeaux mixture made according to the regular formula. They were carefully watched and the rust did not develop

first-class ventilation it does not seem possible to grow carnations under glass all summer, and get good vigorous plants that will compare with those that have been grown in the field.

Great care should be used in syringing your carnations after they have started. Daybreak is especially susceptible to water and at the same time is one of the first to be attacked by red spider. The best method of handling a carnation of this kind is to wait until about noon and then syringe it hard. The spider on a clear day are in their most active condition about noon and you will destroy more then than at any other time of day; that is of course on clear days. On cloudy days it is best not to syringe at all. Whenever the leaves begin to show spots they should be given a good dry rest for a week or ten days and if they need watering during that time do it in the middle of the day so that the foliage will dry off quickly. There are other varieties that seem to thrive best with plenty of water both on top and in the soil; each grower can soon determine which these varieties are and treat them accordingly. It is well not to leave the watering and syringing too much in the hands of your employes, but oversee and instruct them all you can. It is easy enough to hold the end of the hose but to handle it right is almost a fine art. ALBERT M. HERR.

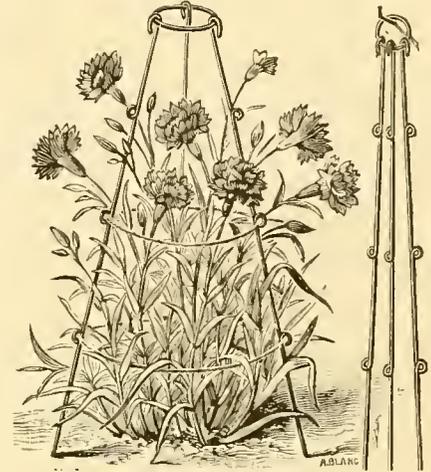


Fig. D.

sufficiently to bear gently where the plants need support, and tied together once or twice to keep from slipping down; an occasional stake is used with very tall sorts to keep from toppling. We find this support fairly satisfactory, having the advantages that the soil can be worked, and the flowers cut with long stems; the

Carnation Supports.

There are many devices now in use for supporting carnations, some of home construction, others manufactured in quantity for the supply trade and each claiming to be the best contrivance for the purpose.

The ideal carnation support is the one which offers the least obstruction to free handling of the plants, gathering the flowers or working the soil, simplicity and rapidity of adjustment and durability being also important points. With the older varieties of carnations where nine or ten inches was the maximum length of stem, a foot wide wire netting stretched around the outside of the bed to keep the plants off the path or some such simple contrivance was all that was necessary, but with the modern carnation with its eighteen or twenty inch stem different treatment is called for and some substantial and uniform method of support is essential. The prevalence of various diseases also makes it necessary for the grower to be able to reach every part of each plant at all times in order to insure a thorough circulation of air around and under the plants and thus keep them in healthy condition. With plants properly supported stronger stems and more perfect blooms are also assured.

Some growers use a system of longitudinal wires similar to that employed for roses. This is the plan favored by H. E. Chitty. Jos. Heacock also adopts this method using one stake two and one-half

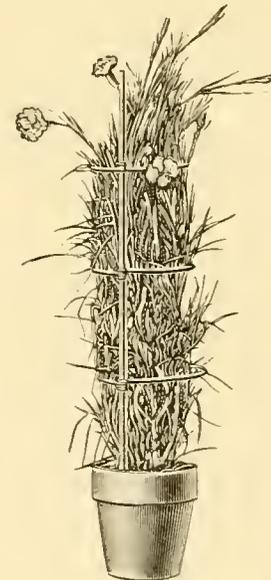


Fig. E.

support, except a few stakes maybe, being almost no obstruction to free intercourse with plants and soil."

The plan adopted by Ernst Asmus, W. R. Shel mire, J. N. May and many other prominent growers is to use galvanized chicken netting No. 18 or 19, two or three inch mesh, about one foot or more in

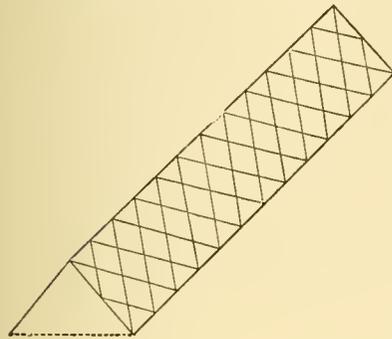


Fig. B.

again until just about the time they needed repotting into threes, at which time they were looked over carefully again and all the affected leaves taken off and dipped as before. When they were put into fours there were only a few spots of rust; these were again picked off and the plants dipped, since which time up to the present there has not a spot of rust developed. These plants are not as large nor as strong as the plants that were grown outdoors all summer, and the plan is hardly practical excepting where

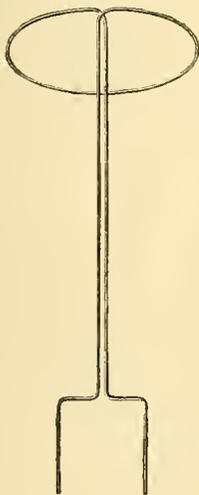


Fig. C.

as in this case you have a few of something that is too valuable to run any chances with the rust.

One does not hear much of the plan of growing the plants in the houses the same as roses all summer. It would be interesting to hear from one of the growers

width according to height of variety grown. This is cut into lengths of the full width of the bench (some prefer to cut it half width of bench), then bent into the shape of Λ and slipped in between the rows of plants. The benefits claimed for this plan are cheapness and durability, and a free circulation of air at the base of the plants where the foliage is heaviest and air is most needed. The tops are left entirely free and there is no interference with the taking of cuttings or picking of flowers with the longest stems. When it is desired to stir the dirt it is but little trouble to remove and replace the meshes, especially if they are cut as recommended by some growers, one-half the width of the bench and pushed in from each side to the center. Mr. Shelmire advocates in the case of extra fine varieties that bring a fancy price, individual wire stakes and careful tying. Wm. Swayne uses the above method excepting when he grows tomatoes between the rows as a second crop, in which case he uses stakes split from two foot cypress shingles.

Fred Dorner thus describes the method of support employed by him in the past and that which he has now adopted:

"For years we stretched wire over the benches ten inches apart and eight inches from the ground and connected them with a network of twine. The plants grow up through this network, and if not of sufficient height we put another such support six inches above the first. This is very well for the flower stems but does not keep the plants sufficiently away from the ground.

"Others use wire netting bent in an up-turned Λ shape putting them across the bench on the ground between the rows. This will keep the plants away from the ground, but is no support for the stems and flowers. I have concluded for the future to combine the two methods and will give a brief outline of how to do it.

"Use wire netting of sufficient strength made of galvanized wire, cut in lengths so it can be bent in the form as shown in Fig. B, six inches high and eight inches wide, placing across the bench between the rows. This I suppose is best done at the time of planting or soon after, before the plants have made much growth, and the first crop of weeds have been removed. This will be support for the body of the plant and gives the much needed circulation of air underneath; and when watering the hose can be pushed under the netting without hindrance to or making the plants wet, when they need be kept dry.

"Now the support for stems and flowers. Use No. 16 galvanized wire. Stretch from end to end of bench ten inches apart and eight inches above the wire netting. Support these by light wooden cross pieces every fifteen to twenty feet (I use plaster laths). Mark these cross pieces where the wire will come to rest and make a little cut with a saw, just enough so the wire can be pressed into it and will thus be held into place. Now take common white twine and wind it on a stick or spool. This gives a better way to hold the twine than in the ball form. Commence at one end of the bench, fasten the twine to the outside wire, run diagonally across, passing the twine around each wire as you proceed. When half way hand to a man on the other side of the bench to carry it to the outer wire and return in the same diagonal way. The man at the other side may commence at the same time in the same way with a second spool. They will meet in the center and exchange spools of twine. In

this way the work will be done in half the time as both men will be continually occupied.

"This forms a network as shown in Fig. A, through which the stems will grow up and give them support without impairing its freedom of growth as when tied to a stake or allowed to fall over and get tangled up, and also allows freedom in cutting any length of stem desired. Some may think this slow and expensive work, but it is just the reverse. At our place two men will stretch the wire and put on the twine netting in a house 20x100 feet in one day, and the wire we use now for the third season."

Fig. C shows the device used by Edwin Lonsdale. It is home made, cheap, durable and effective. For a support which is to be seven inches high when in position three feet of wire is required. From one pound of No. 13 galvanized wire at four cents per pound ten to twelve such pieces can be cut. Having driven three or four nails into a plank the feet of the support are made by a few rapid movements, the round part or hoop which supports the flowering stems being turned over a round log three and one half to four inches in diameter. The bow end is then placed between two pieces of board fastened sufficiently close together to barely admit the wire and then with a quick bend to one side the device is complete. An active man or boy after a little practice can make these very rapidly. In the case of tall growing varieties, especially towards spring, a higher support than seven inches is desirable.

The device called "Michell's Practical," Fig. D, consists of three galvanized wire stakes looped at proper distances to admit fastening thin wire or string as shown in the illustration and has been received with much favor by many carnation growers. Its tripod form makes it very stable when in position and when not in use it packs away in small space.

The Worcester Wire Co.'s "Perfect" support, which is the last we illustrate (Fig. E), received a certificate of merit at the Atlantic City convention. A small ring five inches from the base of the standard makes a foot piece to rest on the soil thus keeping the support in upright position. The supporting rings are adjustable up or down the standard at any height and can be opened to adjust around the stems.

Miscellaneous Seasonable Hints.

After the 1st of October there should be no excuse for having any tender plants left exposed outside in this latitude. Don't be deceived by fine weather. We may escape a frost at the end of the month but we seldom do. Hydrangeas that are planted out in frames or the open ground can remain a few weeks later; a little frost on them does no harm; it ripens the wood and they winter all the better for it.

If you have not planted in the frames all your pansies for spring sales do it at once. They have yet a good month to grow before they need the protection of glass. Don't forget that cow manure is what produces fine pansies, both plants and flowers.

If you grow several thousand Harrisii lilies don't leave them all out for Easter or bring in too large a quantity at once; from Christmas on there is a steady demand and use for these fine flowers, and many a funeral bunch or decoration can be made with these when you are short of roses. Bring in 50 or 100 at a time and endeavor to have a constant supply to cut but never too large a quantity at

once. Your main crop for Easter will do finely in the frames for weeks yet to come; in fact you will have lots of room from the throwing out of mums before you need bring in your Easter crop. The earliest forced that you want for December and January and which are now 5 or 6 inches high can be given a temperature of 60° at night, but must have a light bright house. There is no plant we grow that is so easily and permanently injured by greenfly; smoking twice a week is the cure or rather the prevention. There is no doubt the splitting and separation of the petals in the mature flower is caused by the attacks of the aphid when the bud is in a very small state.

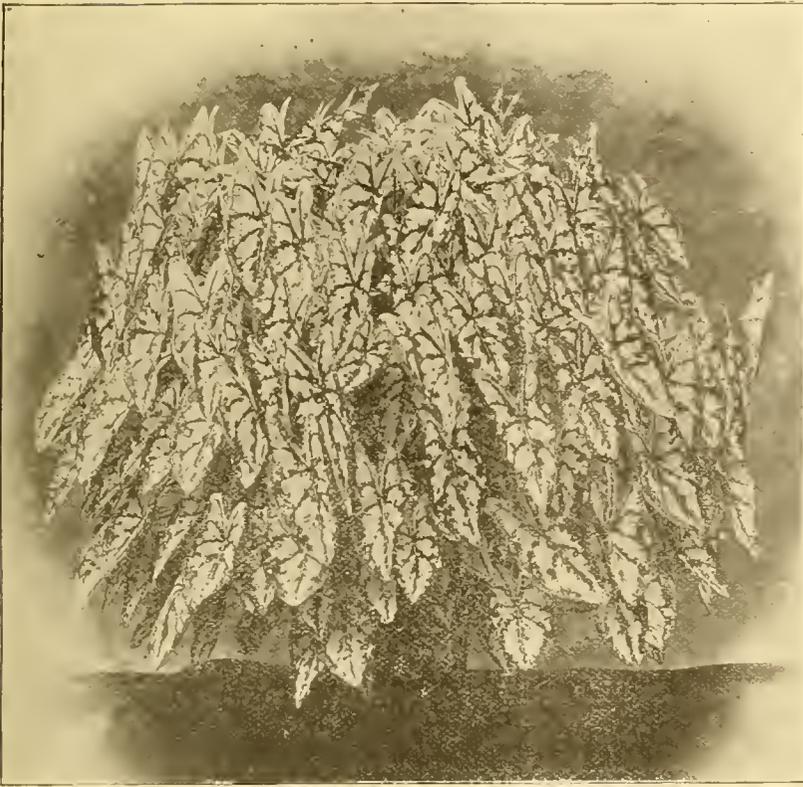
A very useful plant with us this year, especially for vase, etc., where partially shaded, is *Begonia Vernon*. Sow it now and you can have fine plants in 4-inch pots a foot high and in full bloom by next May. It is a robust grower and easy to manage. Some vases of it in our cemetery this summer have been most satisfactory. It was in flower on June 1 and is still a mass of flowers.

Primulas should now have their last shift; with me a 4 or 4½-inch pot. Don't be afraid to pot a little deep; it will keep the plant from shaking at the neck. A temperature of 50° at night will just suit the primulas. Unlike the *calceolaria* and *cineraria* they are little troubled with our enemies, and syringing is not necessary. The *calceolarias* must not be allowed to ever suffer for want of water; give them plenty of room and keep fresh tobacco stems between the pots. It will help greatly to keep down the fly, which is an awful pest to these very showy plants. The *cinerarias* that were sown in June will soon take their last shift; use the soil rather coarse that the water may pass freely through. You can easily kill a *cineraria* with over watering or the soil remaining long in a sodden state. The chief point about producing a sturdy bushy *cineraria* is to give them room to spread, all the light you can and keep them cool; a night temperature of 40° is ample for them, and they will make better plants than in 50°.

If you have but a few plants of any choice new *canna* you need not let the frost kill the tops; lift them, divide into as many pieces as you can and keep growing all winter, dividing whenever the plants are large enough. With those that you have sufficient stock of lift as soon as the tops have been hurt by the first frost. Cut the stems down to within a foot or so of the root and after drying in the sun a day or two store away beneath a cool bench; there is no better place for them but place the roots on boards or the dampness of the ground will start them growing, which you don't want.

I have just made the acquaintance of a very useful outside decorative plant, *Strobilanthes Dyerianus*. I don't know what family it belongs to [*Acanthaceae*.—Ed.] It grows as freely as a *coleus*, and can be propagated as readily, although perhaps not so rapidly. Its fine leaves are a rich bronze purple. In the *amaranthus*, *coleus* or *achyranthus* we have nothing like it in color, and for subtropical beds and other uses it is going to be most valuable. It is said to keep its color or rather improve its color under our bright summer suns. W. SCOTT.

DO YOU WANT Mr. Scott's seasonable hints for the year in book form, so that you can refer readily to his suggestions for any week in the year? You will find them in this form in our trade directory and reference book for 1894. Price \$2.00.



CALADIUM ARGYRITES.

Caladium Argyrites.

This little gem is one of the most beautiful and serviceable of small decorative plants. For table decoration, for baskets and jardinières it has no rival.

The plant shown in the illustration was grown from one tuber put into a 4-inch pot about the last of May, shifted later into a 7-inch pot and photographed on August 23. Mr. George McWilliams of Whitinsville, Mass., the grower of the plant illustrated, gives his method of culture as follows:

"We pot in light soil and when rooted through we shift into larger pots. The potting material used is sphagnum moss with sometimes a little bone meal added, but we find that they root more quickly in the pure moss. After they are well rooted we give them liquid manure."

Philadelphia.

Messrs. Davis, Huster and Huebner have returned from their trip to Pittsburgh and express themselves as very much pleased with what they saw, and particularly with the conservatories at Schenley Park. This park contains the finest range of glass in America, and probably it is not equalled in extent anywhere else in the world. The condition of the plants reflects great credit on Mr. A. W. Bennett, the superintendent. The collection of tree ferns from the World's Fair is making a rapid growth. It is said that this is probably the largest number of varieties of specimen plants ever gotten together.

We are informed that there is plenty of "sand" back of the new market movement that is to be started immediately, and not next year or later. It is to be called the Philadelphia Wholesale Floral Co., or Commission Co.—we are not quite

certain which. The stock is to be held entirely by growers, dealers and persons connected with the business. We are also informed that all the prominent Philadelphia growers are interested. The flowers are to be sold on commission under the management of a committee appointed or ordered by the stockholders. While the principal stock to be handled is cut flowers, there is to be kept in addition everything required about a cut flower store or grower's establishment, such as seeds, bulbs and all appliances. This seems like a business undertaking for the good of the trade. Personally we don't like the way in which it is said the flowers are to be handled. We would prefer that each man handle his own stock, which would keep the competition feature, so essential to the life of trade, a prominent factor. We are glad, however, to be able to report something, even if it is only a suspicion, and that is all it really seems to be, as nobody will say a word authoritatively about the movement, yet there seems to be something more than rumor in it. Why this secrecy? If it won't stand the light now it does not say much for the market later on.

At the last meeting of the Horticultural Society the coming chrysanthemum show received considerable attention. The committee on arrangements were directed to prepare at once a plan of the available space in the Academy of Music and lay out the aisles and tables and also to select a position for a flower booth from which flowers are to be sold. This space is to be let to the highest bidder. Sealed proposals are to be sent to the secretary up to October 16, when they will be opened. The committee reserve the right to accept or reject bids as they think will be for the best interests of the society.

Robert Kift proposed as a new feature

that there be exhibits invited from other horticultural societies and florists' clubs giving chrysanthemum shows, making a sort of inter-city contest. Philadelphia for instance will exchange with Boston, New York, Buffalo, Baltimore, Chicago and other cities, one hundred fine blooms. These will be entered in the name of the society or club sending them. They will be long stemmed flowers and arranged in one large vase resting on a low table or the floor and placed so as to be seen from all sides. The finest vase in the collection to be awarded a premium in the shape of a cup or diploma, the home city of course not competing with the others. The flowers necessary to make these exhibits should be first-class in every respect and great care given to their packing and shipment. The expense should be borne by the local club or society, and while it might be considerable it would be more than returned in gate receipts. The reporters would have plenty to talk about in describing the entries of the different cities and the fact that the local club's exhibit had received the premium in other cities would be a good drawing card to any show. A committee was appointed to communicate with the secretaries of other societies and try and get their cooperation in bringing about such a display.

A special feature of the exhibition is to be a display of vegetables; exhibits of this character were at one time very popular and it is proposed to revive the interest in farm and garden products by offering liberal premiums.

Geo. Huster, Paul Huebner and Chester Davis recently spent a few days in Pittsburg, a sort of advance guard looking up rooms for their stay during the convention next year.

Mr. Henry Pfister of the White House conservatories was in town lately.

K.

Chicago.

Business continues to improve gradually. Local demand for the better quality of stock is now fairly steady. The retail boys feel encouraged once more to carry a stock, something they hadn't thought of doing for months past. The shipping trade is also reviving, and considerable stock was disposed of through those channels. Rose stock is plentiful though, but the increased demand has made no impression on prices in general; first quality rules firmly at \$3 for such varieties as Bridesmaid, Testout, Kaiserin and Meteor. The bulk, however, sells at from \$1 to \$2. Beauties continue in steady demand, with prices firm at \$1.50 per dozen for A1 long stemmed and \$1 for medium long; the cut is fairly large, but few good flowers go to waste.

Carnations have advanced a little, the best going as high as \$1, and 75 cents for the bulk. In pinks we note some very fine Sweetbrier, Nancy Hanks and Wm. Scott. Lizzie McGowan leads in white; some very good Uncle John also may be noted. Silver Spray is abundant, but not of very good quality, with the exception of an occasional lot here and there. Portia in red is the best at present. Violets of the small single variety have made their appearance, but the demand for them is very slow. Valley was in brisk demand this week and the stock ran short on several days, but there is plenty in sight from now on.

The only outdoor stock worth mentioning is cosmos, which in fairly good supply sells readily. Dahlias in some localities were nipped by Tuesday night's

frost, but the dahlia crop is a poor one anyway this year, so the loss cuts little figure. There is quite a call for asparagus, which this year the same as last is mostly received from outside points.

New York.

Cooler weather has caused a temporary slacking up in the quantity of roses coming in, and a very decided improvement in quality. The windows of the retail florists generally show indications of reviving industry, and as a rule are already exceedingly attractive. The wholesalers and the market begin to present a busy appearance. Carnations are selling well if of fine quality, and white flowers of all kinds show a gratifying advance in demand.

The sale of McFadden's orchids was only fairly attended, and the prices ruled low on most of the lots. Auctioneer Elliott was evidently not satisfied with his congregation. "You understand the quarters better than the dollars. Heavens and earth! I'll sell any mortal thing, myself in it, if I can only get a bid," he exclaimed in despair. But much of the stock was in poor health, and evidently the cream of the famous collection had been withheld or sold previously. The best price obtained was \$18 for *Cypripedium leucorrhodum* with three growths.

August Rolker & Sons have made alterations in their store on West 24th street which add much to its convenience and general appearance. E. C. Horan's cut flower establishment on 27th street has been thoroughly overhauled inside and out, and carnations ought to bring half a dollar a hundred more in consequence.

Edwin Lonsdale of Philadelphia and Sam Goldring of Albany were noted among the interested attendants at the auction sale.

St. Louis.

All the delegates to the convention arrived home safely, and express themselves as more than pleased at the reception accorded them at Atlantic City. Those who did not attend will have to endure for a long time the reminders of what they have missed. The bowling team was let down rather easy after the poor showing they made; it may be that several games rolled here with the pins at regulation distance can account for the lenient treatment. The innovation introduced, that is, the shooting contest, seems to have taken strong hold upon some of the members, and in all probability will lead to the formation of some kind of an organization for its continuance.

At a meeting of the committee having the chrysanthemum show in charge committees were appointed and granted an allowance to provide for music, decorations and advertising. It was also decided to print small notices announcing the show, to be used by the florists in their correspondence, bills and so forth. It was decided also to have a daily programme printed announcing the awards of the previous days, and the special features for each day as they occur.

The regular meeting of the club was held on the 13th with a very poor attendance present; very little besides routine business was transacted, nobody seeming to have recovered from the break in the regular routine caused by the convention. Mr. Weber gave a description of the trip and entertainment for the benefit of those who had not been present, and poked considerable fun at the

bowling team, which was taken as it was meant. The committee having in charge the raising of a guarantee fund for the chrysanthemum show have met with such opposition that a special meeting of the Florists club has been called to decide what shall be done in the matter, whether it shall be continued or done away with altogether. R. F. T.

Boston.

There seems to be a fair amount of business coming in to the various centers and a general hopefulness prevails. The amount of trade is not large but it is far ahead of the summer volume and is remarkably steady for the season. Roses show the good effects of the cooler weather and are coming in good shape. Outdoor flowers are about finished.

Horticultural Hall was gay on Saturday, September 22, with hardy asters. Every year seems to add to the variety and beauty of these useful fall blooming plants and no hardy herbaceous bed is complete without them. The collection shown by Geo. Hollis was rich in rare species and beautiful new varieties.

The changes in business are fewer than usual for this season of the year. Bowditch & Co. will move October 1 from their present location under the Tremont House to 168 Tremont street, where they will have a store admirably fitted for a first-class florist business. Geo. A. Sutherland is making extensive alterations and improvements in his store on Bromfield street.

There was a meeting of parties interested in bowling at the office of Welch Bros. on Saturday, September 22. Future matches and challenges are talked of but nothing definite is yet decided upon. Possibly the meeting of the Carnation Society next February may furnish the incentive for a little tournament.

Ernst Asmus passed through Boston on Monday last bound for the happy hunting grounds in the remote corner of Maine. Jackson Dawson is off on a collecting expedition in the wilds of Rhode Island.

Cincinnati.

The shipping trade is improving, so is the quality of stock. American Beauties are coming in more rapidly, and find ready sale at 15 cents for the best. Brides and all white flowers are very scarce, the supply not equal to the demand, and now that frost has put in its appearance outdoor stuff will be pretty well used up. Mermets and Bridesmaid, as well as Perles, are improving and sell at 3 and 4 cents for the select. Carnations are selling for 1 cent, and are coming in fairly well. Lily of the valley as grown by Magrie & George is in fine form, and brings 4 cents, with good demand. Trade in all branches is much better in this city. Our retail stores are busy with funeral and decorative work.

On Saturday the Globe Clothing Company opened its doors to the public, but not until the florists had added the finishing touches. Jules Baer had several original designs. Sunderbruch's Sons also furnished several designs and 2,000 roses. You see they can't get along without the florist no matter how choice and fine the stock of goods displayed.

A recent visit to Fred Waltz's greenhouses shows that Fred has been busy during the past few months; his mums are the best to be seen around our city. Two houses especially are fine; in one he has about two hundred plants of a white seedling; they now have buds about the

size of a dime, and Fred says will be ready for market by October 5. Last year this same seedling was shown in fine form at our October 14 meeting of the Cincinnati Florists' Society. In another house he has all the new varieties of last year, or at least all the good ones. Major Bonnaffon is the shortest in the house, being 5 feet high. Mrs. E. G. Hill is fully eight feet, and numerous other kinds 6 to 7 feet; the foliage is faultless, and the flowers will certainly be likewise. Fred is also quite an expert with seedling cannas, and one especially is a bright crimson edged with yellow, very showy, and of a dwarf character. His seedling carnations are also looking well; the most promising one is a bright scarlet. The balance of his stock is doing well, especially the Marechal Niel house, which is the only one of the kind around our city.

The new rose Mrs. W. C. Whitney grown by E. G. Hill & Co. is selling well and commanding a good price. It is beautiful in color, foliage and very fragrant, and a good keeper.

John Fries of Newport, Ky., reports a large wedding decoration for the 26th. Uncle John has also built two more greenhouses 100x20 feet for growing roses and carnations.

Our visitors during the week were Fred and Geo. Waltz of Wilmington, O.; Frank McGregor of Springfield, O.; Frank Pentland of Lockland, O.; Mrs. John Lodder and Miss Hoeffner of Hamilton, O.; and F. H. Troy, for Pitcher & Manda.

Indianapolis.

The regular meeting of the Florists' Club for September was well attended. Two new members were elected. The picnic committee reported all bills settled and was released with thanks. Mr. Parker, chairman of committee on Crown Hill Cemetery matters, reported progress: probably the trustees will arrange to build suitable greenhouses and employ a competent supervising florist. Mr. John Hartje read a paper, "The Ideal Florist." Among his remarks he mentioned in particular that those people who put funeral notices in newspapers mentioning "no flowers" generally have the best and most profuse flowers, they preferring to have only first-class material and not so much rubbish as is sometimes sent indiscriminately. The paper created a great deal of discussion.

A committee on bowling was appointed to investigate and report if a suitable bowling place can be arranged for by selling sufficient stock to the members to build one. The following committee was appointed to join a like committee of the state society to act in entertaining and otherwise taking care of all visiting florists and others during the coming chrysanthemum show: Frank Alley, E. A. Parker, Prof. Walker, W. H. Kelley, a reception to be held Thursday evening, November 8.

The whole committee on chrysanthemum show of the state society met at the Dennison Hotel, this city, on September 11. All business to be decided by the whole committee was discussed and acted upon. The State Horticultural Society will again make an exhibit of fruit and will hold their annual meeting at the state house during that week. The regular and special premium list amounts to between \$1200 and \$1300. Complete programmes and premium lists will be issued about October 10. The committee on reception to join a like committee of the Indianapolis Florists Club was chosen as follows: Anthony Wiegand, J.

D. Carmody, W. Langstaff, J. S. Stuart.

The Indiana State Fair was held near this city September 17 to 22; it was a great success, weather being very fine. The Horticultural hall was only partly filled, fruit display small and in plants only two good displays; one very good amateur display. Anthony Wiegand received first premiums on best display of plants, caladiums, variegated plants and vases; Bertermann Bros. first on palms, ferns and lycopods, blooming begonias, cannas, asters, geraniums, funeral designs, bouquets, cut flowers, gladiolus, most original show design and most original funeral design; John Rieman & Co. first on floral baskets; W. W. Coles, Kokomo, first on cut roses; Chas. Wheatcraft first on hanging baskets and foliage begonias. The arrangements in the floral hall were a disgrace to our profession, the superintendent having taken a pattern after the horticultural building at the World's Fair, a very appropriate name would have been "Fakir Hall," all kinds of devices being for sale in the avenues of the building. Another year this must be changed or no florist will be found there. The grounds in general are in wretched condition.

A storm two weeks ago tore away a part of the greenhouses at the Deaf and Dumb Institution, also many fine shade trees. Bertermann Bros. were also damaged about \$50 in broken glass, etc.

Another greenhouse firm is reported to be under way; surely no need for any more in this neighborhood. Business is slowly reviving. W. B.

New Notes.

XENIA, O.—J. J. Lampert has remodeled and improved four houses.

CHESTER, PA.—Thos. F. Delahunt is adding a new house 20x104.

SYRACUSE, N. Y.—The American Nursery Co. started in business here last summer.

MONTICELLO, ILL.—W. F. Smith and sister of Tuscola, are building a greenhouse here.

BLOOMINGTON, ILL.—Mr. Andrew Washburn has opened a floral store on North Main street.

STERLING, KANS.—R. J. Shay has built a greenhouse in which to grow early vegetables and plants.

BLOOMINGTON, ILL.—Trade is opening up nicely and think we will do more business than expected.

NORTHAMPTON, MASS.—Mrs. J. Kirsten has resumed the florist business conducted here by her late husband.

NICKERSON, KANS.—Mrs. C. E. Decker has sold her greenhouse and stock to Henry Clure of Sterling, Kans.

AUBURN, ME.—A severe hail storm smashed all the glass on the greenhouse of Cornelius Chippendale on September 5.

LAPEER, MICH.—W. H. Watson is building four additional greenhouses which will give him 3,000 feet of new glass.

NEW BEDFORD, MASS.—Stephen E. Shaw will erect a greenhouse 10½x26 on the east side of State street, south of Willis street.

IPSWICH, MASS.—Benjamin Fewkes is making extensive improvements in his establishment, including new heating apparatus.

SEATTLE, WASH.—Mr. S. T. Kelsey Jr., 86 Sullivan Block, will act as agent for the Pacific States for Harlan P. Kelsey of Kawana, N. C.

BELLEVUE, PA.—Mr. Henry Eichholz, formerly with Mr. Fred Burki, has rented the greenhouses of Mrs. J. F. Nitterhouse at Waynesborough, Pa.

KINGSTON, N. Y.—Pye & Mueller have sold their business in this city to D. B. Stow, who will continue it. Messrs. Pye & Mueller will move to Key West, Fla.

HUNTSVILLE, ALA.—Chase Bros. have leased the Wells farm, which lies opposite their nursery, for a term of three years. This will give them a total of 600 acres.

SAN FRANCISCO.—The California State Floral Society has changed the dates for the coming chrysanthemum show from November 15, 16 and 17 to November 1, 2 and 3.

BLOOMSBURG, PA.—Mr. J. W. Mann has resigned his position with Mr. J. L. Dillon after being in Mr. Dillon's employ for 12 years. His plans for the future are not yet settled.

LOUISVILLE, KY.—Messrs. Nanz & Neuner have purchased the six greenhouses of Morat & Sons and have added them to their plant at St. Mathews. Messrs. Morat & Sons retire from the business.

YPSILANTI, MICH.—Chas. F. Krzysske has purchased the greenhouse and stock of Mrs. A. E. Bowe and has removed the same to his place on South Washington street. Mrs. Bowe retires from the business.

WEBSTER, MASS.—The greenhouse plant leased and run by Eugene O'Hara the last ten years will now be managed by the owner, Mrs. A. L. Converse, assisted by P. C. Riebe. A house 40x16 for carnations has been added to the plant.

LINCOLN, NEB.—A chrysanthemum show will be held here next November. At a meeting of professionals and amateurs recently held the Lincoln Chrysanthemum Society was organized with Mr. J. H. Haddonson as temporary president and secretary.

OMAHA, NEB.—The co-partnership heretofore existing between J. R. McPherson and Robert F. Rain, under the name of the Elm Park Floral Co., has been dissolved by mutual consent, Robert F. Rain retiring, and J. R. McPherson continuing the business.

BLOOMINGTON, ILL.—Mr. Andrew Washburn has added four greenhouses to his plant this year and taken into partnership his son, Frank L. Washburn, and they will conduct a florist and seed business at 531 N. Main street, under the firm name of A. Washburn & Son.

GRAND RAPIDS, MICH.—The Wealthy Avenue Floral Company is making extensive alterations and improvements in their plant at 891 Wealthy avenue. Two new greenhouses, one 22x112 and the other 14x60 feet, are being built and two new boilers are being put in.

COLLINSVILLE, ILL.—Miss Annie, daughter of Mr. John Kropf, the florist, died September 13, aged 20 years. Miss Kropf was a great favorite among her friends and acquaintances and the funeral was very largely attended. Mr. Kropf's

many friends in the trade will be deeply grieved to learn of his affliction.

NEW ORLEANS, LA.—Mr. Alfred Staephoud, foreman for Mr. E. Valdejo, was found drowned in the greenhouse pond in but two feet of water. He is supposed to have fallen into the pond while in an epileptic fit. He was in full charge of the establishment during the absence of Mr. and Mrs. Valdejo on a trip to France.

ALBUQUERQUE, N. M.—Fred Moore, a florist from Chicago, died at the city building September 6, and was buried at city expense. He was kindly cared for after his wants became known by ladies of the Episcopal church. He said he had relatives in Chicago who refused him aid when appealed to during his last illness.

GALESBURG, ILL.—I. L. Pillsbury is building two new greenhouses here, one a rose house 20x100, the other a propagating house 8x100. He will remove his wholesale rooted cutting business from Macomb to this city on account of the better shipping facilities. The retail business will be carried on at both places as before.

LENOX, MASS.—The floral tub parade on September 15 was one of the most elaborate and successful ever held. There were 31 carriages in line and all were decorated with flowers in the most extravagant manner. Hydrangeas, gladioli, clematis, asparagus, dahlias, asters and wild flowers were used in enormous quantities. The turnout attracted a great crowd of sight seers.

IONIA, MICH.—A hail storm of phenomenal character for this locality struck this city September 7. Hail stones and chunks of ice of all shapes and dimensions, from the size of a good sized pocket knife to that of a hickory nut, some edged with sharp barbs like sand burs, were gathered up after the storm. Fortunately it was of short duration or the damage to glass and vegetation would have been enormous. Only a few hundred lights of glass were smashed.

LEOMINSTER, MASS.—To see carnation Grace Wilder in all its original glory go to Jos. Fuller's. Whether it be Leominster soil, Fuller's skill or a combination of the two deponent saith not, but even old acquaintances would scarcely recognize her as she appears here full of vigor and of unexcelled color. Other carnations and chrysanthemums are looking well also. When the flower trade languishes Mr. Fuller has only to turn for comfort to a twelve acre field of asparagus which for profitable returns leaves the flower trade far behind and in spring time furnishes employment to all the early risers in the neighborhood.

SAGINAW, MICH.—The *Courier-Herald* of September 9 says: "Friday evening the board of cemetery commissioners opened bids for planting and maintaining the flower beds in the cemeteries. There were three bidders for the contract, as follows: Mrs. George Waldbauer, \$172; William Roethke, \$242, and Charles Frueh, \$215. The contract was awarded to Mrs. Waldbauer, she being the lowest bidder. The flower beds that must be maintained under this contract are sixteen in number and this year contain 7,763 plants." If the number of plants to be supplied is correctly given this would be an average of only a trifle over 2½ cents per plant. If the plants are to be anything more than rooted cuttings there can't be much money in the contract.

St. Paul, Minn.

Several severe frosts have quite effectually killed outside flowers. This has helped trade to a certain extent, but it is not as brisk as it might be. Country orders are coming in quite freely and funeral work is in good demand. This tends to keep the supply pretty well used up. The supply of roses is good and of fine quality. Meteor, Kaiserin, Bridesmaid, Perle and Beauty are extra nice. Carnations are in good demand with but a small supply.

Growers are now putting in outside stock, repairing broken glass and making ready for winter. Carnations are all housed. While those that were watered freely during the summer are looking well those that had no water are very weak and inferior. My former reports would indicate that field grown carnations were better than usual this year, but quite an extended trip of careful observation about town and in Minneapolis fails to reveal many first-class plants. Of the thousands seen only two houses could be termed strictly first-class.

The display of plants and cut flowers at the Minnesota State Fair was very poor, the quality below the average, while the number entered was very small. It is hard to make the average grower believe that a display requiring several days work in carting, arranging and caring for the plants, with the risk of damage, etc., netting him from \$25 to \$50 in premiums, is at all profitable. Coming at a time when every one is busy with his fall work, it never receives the attention that it deserves.

During the past two weeks we have had several nice showers, quite breaking the long drouth, but too late to be of any practical benefit to vegetation. We have also had quite a severe cold wave, the thermometer going down to the freezing point. This necessitates constant night firing if one's houses would be free from mildew.

The beds at the parks are still looking fine, and our citizens have good reason to feel proud of the achievements in the floral line this season. The Mrs. Beasley geraniums still retain all their beauty and wealth of bloom and commend themselves to every lover of flowers in and out of the trade as an excellent bedding variety. They are the best pink we have seen.

A visit to the principal growers about town reveals a large increase over former years in the number of roses planted, the usual number of carnations and chrysanthemums and a very perceptible decrease in the number of bulbs planted of all kinds. Even that old favorite, Harrisii, seems to have been discarded by many.

Chris Hansen's roses are in good shape and are now in crop. He is cutting about a thousand daily and finds a ready market for them. Some few spots of mildew were seen but he has checked it and with steady night firing there is but little danger of damage from that source. E. F. Lemke is also cutting a nice lot of roses. His son is now manager of the floral department at Donaldson's Glass Block in Minneapolis.

L. L. May & Co.'s houses, as usual, are looking well. Their stock of roses, carnations and mums is looking exceptionally fine. They are putting in the usual number of bulbs, Harrisii, Romans, narcissus, tulips, hyacinths, etc. Their new houses are now completed, giving them 7,000 more feet of glass. They are planted to roses and carnations, are built with the short span to the south and are model houses in every detail. A cheap, light and

practical sash lift is used, quite unique and the first of the kind we have seen in the city. If it continues to work as well as it now does and is durable its value is assured.

The annual meeting of the Minnesota Florists' Society was held in this city on the 13th inst., Pres. Malmquist occupying the chair. The following were elected officers for the coming year: President, James Souden, St. Paul; vice-president, E. Nagel, Minneapolis; secretary, Robert A. Currie, St. Paul; treasurer, R. S. Wessling, Minneapolis; executive committee, L. G. Venzke, A. S. Swanson, of St. Paul, G. Malmquist of Minneapolis. The by-laws in regard to membership fees and dues were suspended and all florists in the state invited to become members of the association. The secretary was instructed to call a special meeting for one month hence. The attendance was not large but all present were enthusiastic over the prospect of a good strong society being formed and monthly meetings being held the coming winter. The subject for discussion next meeting is the advisability of using oil for fuel. The retiring secretary, A. S. Swanson, has been a hard worker for the success of the society and much is due to his efforts. The new officers are all well known enthusiastic growers and with co-operation on the part of the members should make the state association a power in florist circles. FELIX.

PEWAUKEE, Wis.—Mr. George Pepper, the nurseryman, died at his home here September 11 aged 73 years. Mr. Pepper was born in Bavaria in 1821 and emigrated with his parents in 1835. He reached Milwaukee in 1841 and in 1842 came to Pewaukee.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant ads. not admitted under this head.

SITUATION WANTED—As gardener and farm manager; thoroughly experienced; English; married; age 36. Address D, care Am. Florist.

SITUATION WANTED—As florist or assistant; 15 years' experience in private and commercial trade. Private place preferred. Good references. Address J P S, care American Florist, Chicago.

SITUATION WANTED—By young man in retail store. Experienced. Good character. Can take entire charge. First class references. Address W B L, 328 Flushing Ave., Long Island City, N. Y.

SITUATION WANTED—As orchid and plant grower by Englishman, 12 years' good practical experience; private or commercial; age 23; highest testimonials. Address C H, Short Hills, New Jersey.

SITUATION WANTED—By gardener, landscaper and florist; English; 10 years' experience; best habits and references. Want place in Ills. or Wis. \$30, board, lodging and washing required. Address RICHARD THOMAS, Box 412, Neoga, Ill.

SITUATION WANTED—By a successful grower of cut flowers and plants; good propagator and designer; competent to take full charge, 13 years' experience, American, single, age 35; good recommendations. CLARK, care American Florist.

SITUATION WANTED—As assistant by young American, single; used to first-class retail trade; store or greenhouse work; can take charge; practical, reliable worker; good salesman; abstainer. Good references. Address E P P, care Am. Florist.

SITUATION WANTED—By a young German-American lady, to take charge of a fine retail flower store; understands design work of all kinds of cut, artificial and dried flowers. Address MISS B. HILDESHEIM, General Delivery, Baltimore, Md.

SITUATION WANTED—By energetic young man as foreman or assistant in private or commercial place; well up in orchids, stove and greenhouse plants, hardy perennials and other branches of horticulture; can also help in office. Address A M, care American Florist, Chicago.

SITUATION WANTED—Commercial or private, as foreman, by an expert in roses, carnations, violets, bulb forcing and general stock; 7 years in last place; life experience; married, no incumbrance. Reference first-class; age 35 years. Address with all particulars, E. GARDNER, Elmira, Chumung Co., N. Y.

SITUATION WANTED—After Oct. 15th, as foreman on commercial place of 25,000 or more feet of glass, where roses are made a specialty. References: N. F. McCarthy, 1 Music Hall Place, Boston; or A. Montgomery, care E. M. Wood & Co., Natick, Mass. M, care American Florist, Chicago.

WANTED—Hot water heater, small size. Address E. E. VENEX, Conneaut, Ohio.

WANTED—At once; good all round, sober florist. State wages with board and lodging. Write quickly. Send copy of references. M. C. LONG, San Antonio, Texas.

WANTED—80 second-hand botbed sash 6x3, three lights. Also 600 feet of 2-inch iron piping. Send estimates to JAMES LAWRENCE, Groton, Mass.

WANTED—Florist and gardener, a good willing worker that understands taking care of an orchard and can attend to small greenhouse. Wages dependent on capability. For particulars inquire H. A. ALDRICH, Neoga, Ill.

WANTED—Man to care for lawn, garden, flowers, horse and cow, and make himself generally useful. Wages \$25.00 per month. All applicants please give age, experience, nationality and references. G. E. DILLEY, Palestine, Texas.

WANTED—A good working, single man, as assistant. A good grower of roses and carnations; one who does not use liquor, tobacco or swear. Send references and state wages. Address IOWA, care American Florist, Chicago.

WANTED—A first-class florist to manage the flower department in a large dry goods store; must be competent to make up designs, and have first-class references from former employer. Apply to SYNDICATE TRADING Co., 120 Franklin St., New York.

WANTED—Young man of 20, with greenhouse or seed experience; must write a good hand, have intelligence, work and ambition. Have opportunity to grow into good position in seed business. Address with particulars and references, HORTICULTURE, care American Florist.

FOR SALE CHEAP—One water-buck. Address LEWIS TURNER, Kenosha, Wis.

FOR SALE CHEAP—Large second-hand florist's Ice Box, value about \$75. VAUGHAN'S SEED STORE, 88 State Street, Chicago.

FOR SALE—Hot water boiler and 800 feet 4-inch pipe. Price \$150. This is a bargain. Address WISCONSIN FLOWER EXCHANGE, Milwaukee, Wis.

FOR SALE CHEAP—Large, new hard wood and glass florist's Refrigerator. Used at World's Fair. Price reduced to \$175. VAUGHAN'S SEED STORE, 146 & 148 West Washington St., Chicago.

FOR SALE—800 feet 4-inch hot water pipe and fittings, six cents per foot on ground, 1,500 piling, from 2 1/2 to 6-inch; will sell at one-third cost. CORBREY & MCKELLAR, 66 Wabash Ave., Chicago.

FOR SALE OR RENT—Greenhouses, either 15,000 or 30,000 square feet of glass, stocked with best variety of roses. Or will take partner with \$1,000 capital. Address A. T. JACKSON, station X, Chicago.

FOR LEASE—Splendid opportunity for establishing paying floral business. Seven acres Atlantic City Ward, Norfolk, greenhouse 29x60, hot water heater, hotbeds, choice fruit trees. For lease for 3 years from October 1. Proper party with capital might make other arrangements. Address WILLIAM LAMB, Norfolk, Va.

FOR SALE OR LEASE—Florist business in one of the finest cities and health resorts in Colorado; 5 greenhouses, each 75 by 20 feet, also dwelling; all heated with steam, and well stocked with roses, carnations, mums and violets. Trade wholesale and retail. Will sell stock and give long lease on the place, or will sell the whole place on easy terms. Reason for selling poor health. Address VICTOR JOHNSON, box 884, Colorado Springs, Colo.

TO WHOM IT MAY CONCERN:

The firm of UHLMANN & HAISCH, of Memphis, Tenn., has been dissolved by mutual consent, and is succeeded by E. UHLMANN, who will carry on the business of florist in all its branches, and who will endeavor to maintain the enviable reputation gained by the late firm for high artistic work, and for elegance and promptness in the execution of all orders.

Healthy Violets
MARIE LOUISE

\$4.00 per hundred. Cash with order.

C. L. DOLE, Lockport, N. Y.

FOR SALE.

Six (6) greenhouses, two hot water boilers, about 2000 feet 2-inch wrought iron pipe, valves, etc., lot of hotbed sash, frames, benches and about 35,000 flower pots. The entire plant will be sold at a very low cash price, as the whole must be removed off the premises before Sept. 1st. For particulars address L. R. MUNN, Station C, Brooklyn, N. Y.

Roses.

1000 MERMETS, 600 NIPHETOS, 1000 BRIDES, 150 TESTOUTS.
 All from 2 1/2-inch standard pots. These are in the very best of condition and as large as a great deal of the stock shipped from 3-inch pots.
 Per doz. 75c.; per 100 \$5.00; per 1000 \$45.00.
 Samples free to intending purchasers.

Pandanus Utilis.

6-inch pots.....\$5.00 per dozen
 5-inch pots..... 3.00 per dozen
 4-inch pots..... 2.00 per dozen

Cyperus Alternifolius.

3 1/2-inch pots, per doz. 75c; per 100 \$6
 2 1/2-inch pots, " 60c; " \$4
 2-inch pots, " 40c; " \$3

Grevillea Robusta.

3-inch pots, 10 to 15 inches high, per dozen \$1.00; per 100 \$8.00
 2 1/2-inch pots, " 65c; " \$4.00

NATHAN SMITH & SON,
ADRIAN, MICH.

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For Winter Bloom.

MERMETS, BRIDES, BEAUTIES,
 PERLES, WATTEVILLE, METEOR,
 and WABAN.
 Clean, healthy stock, from 3 1/2-inch pots, \$6.00 per 100; \$45.00 per 1000.

25,000 FIELD-GROWN CARNATIONS, fine, healthy stock. Send for list of varieties and prices.

FERNS—Adiantum cuneatum, 2 1/2-inch pots, \$3.00 per 100; from 4-inch pots, \$6.00 per 100.
 Ferns in fine assorted varieties, same price.

JAMES HORAN, Bridgeport, Conn.

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One Hundred Thousand Roses in stock, 2, 3 and 4-inch pots. All the principal varieties are grown, and are in fine condition. Also a full line of Florists plants.

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Send in your list and get lowest figures.

We also offer 25,000 Nursery Grown SHADE

TREES from 8 to 14 feet high, such as

Silver Maples, Red Maples, Black Walnut,

Elms, Lombardy Poplars, Birch, Elder, Ash.

Also 2,000 Norway Spruce, 4 to 6 feet.

Write for figures. Give quantity you desire.

Address **NANZ & NEUNER,**

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ROSES.

2 1/2-inch pots, Per 100 Per 1000
 BRIDE..... \$2.50 \$22.50
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 SUNSET, PERLE..... 2.80 25.00

And all other standard varieties, 2 1/2, 3 1/2 and 4 1/2-inch pots. Write for prices on what you need.

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ROSES.

Mermets, Cousins Wattevelles, Hoste, Meteor and La France, \$3.00 per 100.

Strong American Beauties, \$5.00 per 100; \$40.00 per 1000. 500 at 1000 rates.

Special prices on quantity. Let me price your lists. Cash with order.

ROBERT F. TESSON,

West Forest Park, St. Louis, Mo.

ROSES.

Clean, healthy stock.

MERMETS, BRIDES, SUNSETS,
 NIPHETOS, LA FRANCE, PERLES,
 MME. WATTEVILLE, PAPA SILENE, METEOR,
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Strong plants, from 3-inch pots, \$8 per 100; \$75 per 1000.

WOOD BROTHERS, Fishkill, N. Y.

Roses. Roses. Roses.

Perle, Niphotos, Mermet, Bride, Victoria, Meteor, La France, Albany, Gontier, White La France, Soupert and Bridesmaid, 2 1-2 inch pots, \$5.00; 3-inch pots, \$6.00 per hundred.

AMERICAN BEAUTY, 2 1-2 inch, \$6.00; 3-inch, \$8.00 per hundred.

THIS STOCK IS WELL GROWN AND IN FINE CONDITION.

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Valuable Discovery of the 19th Century.

SILVER MEDAL AWARDED

— BY THE —

CALIFORNIA STATE FAIR OF 1890.

This preparation is a sure destroyer of the Scale, Woolly Aphis and Insect Pests of any and all descriptions. It may be as freely used in the conservatory, garden and greenhouse as in the orchard or vineyard. It is non-poisonous and harmless to vegetation when diluted and used according to directions. It mixes instantly with cold water in any proportion. It is Safe, Sure and Cheap. No fruit grower or florist should be without it.

Send for Circulars and Price List.

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Watch this Space!

We will quote SOMETHING GOOD in the near future.

We sell only to the trade at Wholesale Prices.

Better not let your customers read your Florists' Trade Papers.

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Hybrid Perpetual Roses,

Worked low on the Manetti Stock, offer the best results to the florist, blooming freely and giving plenty of cuttings for propagating quickly. Fine plants for sale by the 100 or 1000, at low rates.

Price Lists to applicants. Address

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ROSES. GOOD. FOR QUICK SALE.

American Beauty, 3 1/2 and 4-inch pots, \$45.00.

Bride, Mermet, Perle, Bridesmaid, Duchess of Edinburg, 3 1/2-inch, \$30.00.

CARNATIONS, strong, Garfield, Russell, Grace Wilder, \$35.00. ADDRESS

BRANT & NOE, or LOUIS M. NOE,

Forest Glen, Ill. Madison, N. J.

EXTRA PANSY SEED.

MAMMOTH SUNBEAM STRAIN.

A grand collection of giant flowering varieties; no finer offered anywhere; highly prized by my customers. Trade pkt., 500 seeds, 25c; 3 pkts., 10c; 6 pkts., \$1.00.

JOHN F. RIPP, Shiremanstown, Pa.

Marie Louise Violets.

5000 strong clumps, free from disease, for cash with order \$5.00 per 100; \$40.00 per 1000.

GEO. N. SAYLES, 40 Bradley St., Watertown, N. Y.

BUTTERCUP CARNATION..... 6 to 8c

PRIMROSES, assorted, 2 1/2-inch..... 4c

" " 3-inch..... 5c

" " 3 1/2-inch, strong..... 6c

MCCREA & COLE, Battle Creek, Mich.

PANSIES...

Every Florist Claims the Best.

I am willing to have mine tested alongside of any in the market. Over a thousand florists used them last season, were pleased with them and made money out of them.

Have any quantity of fine plants ready now. They can not be offered in competition with cheap grown seed, but quality considered, are remarkably cheap at the price.

By Mail or Express, prepaid, 75c. per 100; by Express at your expense, \$5.00 per 1000. A Liberal discount will be allowed on large orders.

ALBERT M. HERR, L. B. 496, Lancaster, Pa.

CARNATIONS★PANSIES

Grace Wilder, Lizzie McGowan, Portia, Tidal

Wave, Orange Blossom, Golden Gate, \$6 per 100.

Daybreak, \$7 per 100.

Hinze's White, \$5 per 100.

Marie Louise Violets, \$7 per 100.

The above all extra fine field grown stock, perfectly healthy.

PANSIES.

The Jennings Strain of large flowering and fancy pansies ready Oct. 15th and on to May 1st.

THE JENNINGS STRAIN ALWAYS SATISFACTORY.

Price free by mail 60 cts. per 100; by express 1000,

\$5 00; 5000, \$20; 10000, \$35. All colors mixed.

Pansy seed, finest mixed, 2500 seed \$1.

" yellow black eye, 2500 seed \$1.

E. B. JENNINGS, Wholesale Pansy Grower,

Lock Box 254. SOUTHPORT, CONN.

PANSY SEED.

NEW CROP NOW READY. Very fine mixture of large flowering varieties and choice colors, especially selected for florists' use. 1 oz. \$3.00.

NEW GIANT PRIZE PANSY, finest strain in the market. 1 oz. \$5.00.

Low prices on Lilium Harrisii, Longiflorum, Roman Hyacinths, Lily of the Valley, etc.

Special low prices on Rustic Baskets.

HERRMANN'S SEED STORE,

413 EAST 34TH STREET,

Near Long Island Ferry, NEW YORK.

ZIRNGIEBEL GIANT PANSIES.

GIANT MARKET STRAIN,

\$1.00 per 100; \$5.00 per 1000.

DENYS ZIRNGIEBEL,

NEEDHAM, MASS.

Pansies Worth Raising.

STRONG PLANTS.

Prepaid by mail..... \$1.00 per 100

At your expense by express..... \$5.00 per 1000

Extra quality new seed, 1/8 ounce, \$1.00; 5 packages, \$4.00. Large quantities at special prices. Cash with order.

CHRISTIAN SOLTAU,

199 Grant Ave., JERSEY CITY, N. J.

PANSIES.

To show faith in my own strain of Pansies, and you, I will send

1000 FOR \$2.50 CASH.

If with good care they prove better than you ever grew, or at least very satisfactory, then you will send me the other \$2.50 April 15, '95.

Write at once. Supply limited.

W. J. ENGLE, Box 211, DAYTON, O.

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Subscription \$1.00 a Year. To Europe, \$2.00.

Advertisements, 10 Cents a Line, Agate;
Inch, \$1.40; Column, \$14.00.
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No Special Position Guaranteed.

Discounts, 6 times, 5 per cent; 13 times, 10 per cent;
26 times, 20 per cent; 52 times, 30 per cent.
No reduction made for large space.The Advertising Department of the AMERICAN
FLORIST is for Florists, Seedsmen, and dealers in
wares pertaining to those lines ONLY. Please to
remember it.

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

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

Address THE AMERICAN FLORIST CO., Chicago.

Coming Exhibitions.

- WAYNE, PA., Oct. 30-31. Fall exhibition Wayne Hort. Society. John G. Gardner, Supt., Villa Nova, Pa.
- SAN FRANCISCO, Nov. 1-3. Chrysanthemum show California State Floral Society. Mrs. T. L. Walker, Sec'y, 2549 Piedmont Ave., Oakland, Cal.
- CHICAGO, Nov. 3-11. Chrysanthemum show Hort. Society of Chicago. W. C. Egan, Sec'y, 620 Dearborn Ave.
- NEWPORT, R. I., Nov. 6-8. Chrysanthemum show Newport Hort. Society. Alex MacLellan, Sec'y, Ruggles Ave.
- BOSTON, Nov. 6-9. Chrysanthemum show Mass. Hort. Society. Robt. Manning, Sec'y, Horticultural Hall.
- PITTSFIELD, MASS., Nov. 6-9. Chrysanthemum show Berkshire County Gardeners' and Florists' Club. W. M. Edwards, Sec'y, 103 Howard St., Pittsfield.
- ST. LOUIS, MO., Nov. 6-9. Chrysanthemum show St. Louis Florists' Club. E. Schray, Sec'y, 4101 Pennsylvania Ave.
- INDIANAPOLIS, IND., Nov. 6-10. Chrysanthemum show Society of Indiana Florists. W. G. Bertermann, Sec'y, 37 Massachusetts Ave.
- PHILADELPHIA, PA., Nov. 6-10. Chrysanthemum show Pennsylvania Hort. Society. D. D. L. Farson, Sec'y, Horticultural Hall, Broad St.
- LOUISVILLE, KY., Nov. 6-10. Chrysanthemum show Louisville Florists. H. Nanz, Sec'y, 582 Fourth Ave.
- DENVER, COLO., Nov. 7-10. Chrysanthemum show Denver Florists' Club. Adam Kohankie, Sec'y, L.B. 375, So. Denver, Colo.
- PROVIDENCE, R. I., Nov. 8-10. Chrysanthemum show Rhode Island Hort. Society. C. W. Smith, Sec'y, 61 Westminster St.
- MONTREAL, NOV. 12-14. Chrysanthemum show Montreal Gardeners' and Florists' Club. Fred Bennett, Sec'y, 82 Aylmer St.
- BALTIMORE, NOV. 12-17. Chrysanthemum show Gardeners' Club of Baltimore. Wm. McRoberts, Jr., Sec'y, 304 W. Madison St.
- WORCESTER, MASS., NOV. 13-15. Chrysanthemum show Worcester County Hort. Society. Edw. W. Lincoln, Sec'y.
- MILWAUKEE, WIS., NOV. 13-16. Chrysanthemum show Milwaukee Florists' Club. A. Klokner, Sec'y, 219 Grand Ave.
- TORONTO, ONT., NOV. 13-16. Chrysanthemum show Toronto Gardeners' and Florists' Ass'n. A. H. Ewing, Sec'y, 85 Carlton St.
- MOBILE, ALA., NOV. 15-17. Chrysanthemum show Mobile Chrysanthemum Club. Miss Mollie Irwin, Sec'y.
- SPRINGFIELD, MASS., NOV. —. Chrysanthemum show Hampden County Hort. Society. W. F. Gale, Sec'y, 23 John St.
- HAMILTON, ONT., NOV. —. Chrysanthemum show Hamilton Agric. Society. Walter H. Bruce, Sec'y.
- FREDENICK CITY, MD., NOV. —. Chrysanthemum show Frederick County Floricultural Society. C. E. Kemp, Sec'y.

[Secretaries will confer a favor by supplying dates as soon as decided upon. We shall be glad to know of any further shows decided upon and not included in our list, even if exact date is not yet determined.]

REX BEGONIAS.

150 Clementinas in 3 1/4 inch pots.....\$3.50 per 100
100 Assorted, Clossons, Crestens, Pearl of Paris, 2-inch pots.....\$3.50 per 100

J. E. PATTON, Trenton, Mo.

CUT SMILAX.

15 cents per String.

JOSEPH E. BONSALL, 308 Garfield Ave., Salem, O.

FLORAL DESIGNS

The Cut Flower Worker's Friend. Fine book of 160 pages. Send \$3.50 for it, to

J. HORACE McFARLAND, Harrisburg, Pa.

If you **BEST TRADE** you must **FINEST STOCK**
want the keep theWe are Headquarters for **AMERICAN BEAUTIES**, as we grow 30,000 plants of this variety alone of the best quality. Also large quantities of **Brides, Bridesmaids, Albany, La France, Perles, Woottons and Meteors.****Choice SMILAX and ADIANTUM.****Lily of the Valley** constantly on hand.**SEND US YOUR ORDERS.****J. B. DEAMUD & CO.,**

PHONE 223 MAIN.

34 & 36 Randolph Street, CHICAGO.**CORBREY & McKELLAR,****Wholesale and Commission Florists,**

Phone Main 4508.

64 & 66 Wabash Ave., CHICAGO.We are prepared to fill your orders with **First-Class Flowers.**

Give us a trial order.

FOR DECORATING, NOTHING CAN EQUAL
ASPARAGUS PLUMOSUS NANUS.**CUT STRINGS 8 TO 12 FEET LONG, 50 CTS.**

Shipped in large or small quantities to any part of the country. Orders by mail, telegraph or telephone.

W. H. ELLIOTT, Brighton, Mass.**Hardy Cut Ferns,****BOUQUET GREEN,**

Laurel and Green Festooning, Wreaths, Etc.

SPHAGNUM MOSS IN ANY QUANTITY.

H. E. HARTFORD, 18 Chapman Place, BOSTON.**A. Hermann,****MANUFACTURER OF METAL FLORAL DESIGNS
AND DEALER IN FLORISTS' SUPPLIES.****404-412 EAST 34TH STREET, NEW YORK CITY.**A First-Class Certificate of Merit Awarded for Metal Designs at Atlantic City Exhibition.
SEND FOR CATALOGUE.**Metal Designs**just received from our factory in Paris, a rich assortment of the very latest styles of **Metal Wreaths Crosses, Bouquets, etc.,** tastefully decorated with porcelain flowers; all at reasonable prices.

Send for trial shipment, limiting cost, and leaving assortment to yours truly,

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AUCTION ROOMS.**

205 Greenwich Street, NEW YORK.

Sales every Tuesday and Friday during September and October.

Palms sold on Tuesdays only.

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Frank L. Moore, Chatham, N. J.

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FOR CUT FLOWERS.**FOLDING
PAPER
BOXES
for CUT
Flowers.**

Made from Water-proofed, Double Manilla lined, Strawboard. Shipped flat, packed 100 in a crate.

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(Successor to ELLISON & KUEHN),

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FLORIST,

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A complete line of Wire Designs.

Cycas Leaves. FRESH CUT each 75c.**VAUGHAN'S SEED STORE,** P. O. Box 688, Chicago.
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WHOLESALE FLORIST
 68 Lake Street, CHICAGO.
WHOLESALE CUT FLOWERS.
SEEDS, BULBS AND ALL
FLORISTS' SUPPLIES.

Western Agent for the GREAT ANTIPEST.

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Our Roses best them all, in quality.
 Headquarters for fine American Beauties.

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 WHOLESALE GROWERS OF
CUT FLOWERS OF ALL KINDS
 SHIPPING ORDERS will receive our special
 attention. Send us a trial order.
 59 WABASH AVENUE,
 Consignments solicited. **CHICAGO.**

ROGERS PARK FLORAL GO.,
 Wholesale Growers of
CUT FLOWERS,
 41 WABASH AVENUE,
CHICAGO.

We are prepared to fill your orders with first-class
 flowers. Give us a trial order.

WELCH BROS.,
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 NO. 2 BEACON STREET,
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WHOLESALE CUT FLOWERS,
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 SHIPPING ORDERS CAREFULLY ATTENDED TO.
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 Catalogues, Lists, Terms, etc., on application.

Always mention the American Florist when writing to advertisers.

Wholesale Markets.

Cut Flowers.	
NEW YORK, Sept. 25.	
Roses, average stock.....	1.00@ 3.00
" Beauty.....	1.00@ 5.00
" Meteor, Testout.....	10.00@20.00
" Kaiserlin.....	2.00@ 4.00
" Kaiserlin.....	2.00@ 5.00
Carnations, colored.....	.50@ 1.50
Asters, white.....	.75@ 1.50
" finest blooms.....	1.00@ 2.00
Valley.....	3.00
Gladiol.....	1.00
Smilax.....	8.00@10.00
Asparagus.....	25.00@35.00
Adiantum.....	.75@ 1.00
BOSTON, Sept. 25.	
Roses.....	1.00@ 3.00
Carnations.....	.75@ 1.00
Asters.....	.50@ 1.00
Gladiolus.....	1.00@ 2.00
Valley.....	3.00@ 4.00
Tuberose.....	.50@ .75
Stephanotis.....	1.00
Adiantum.....	.75@ 1.00
Smilax.....	12.00@15.00
Asparagus.....	50.00
PHILADELPHIA, Sept. 25.	
Roses, small.....	2.00
" large tens.....	3.00@ 4.00
" Beauties.....	6.00@ 8.00
Carnations.....	.75@ 1.00
Valley.....	4.00
Smilax.....	12.00@15.00
Asparagus.....	35.00@50.00
Asters.....	.75@ 1.00
Gladiolus, per 100 stalks.....	\$1.00 3.00
Tuberose.....	\$.30
Violets (single), 100 bunches.....	\$.30
Cattleyas.....	35.00@40.00
Sweet peas.....	.25@ .40
Adiantum.....	.75@ 1.00
CHICAGO, Sept. 27.	
Roses, La France, Meteor.....	3.00@ 4.00
" Beauty.....	3.00@ 4.00
" Kaiserlin.....	3.00@ 4.00
" General assortment, per 1000.....	\$.50@ \$1.00
Carnations, long.....	.25@ .50
" fancies.....	1.50@ 2.00
Auratum lilies.....	6.00@ 8.00
Asters.....	.50
Sweet Peas.....	.10@ .30
ST. LOUIS, Sept. 24.	
Roses, Perles, Wootton.....	2.00@ 3.00
" Bride, Mernet, Albany, La France.....	3.00@ 4.00
" Kaiserlin.....	4.00@ 5.00
" Bridemaid, Meteors.....	3.00@ 4.00
" Beauty.....	5.00@20.00
Smilax.....	15.00@18.00
Violets, single, per 100.....	.25c 1.00
Carnations, long.....	1.00 .50
Ferns, fancy, per 1000.....	\$.175
BUFFALO, Sept. 25.	
Roses, Beauties.....	10.00@15.00
" Mernet, Bride.....	4.00@ 6.00
" Perles, Gontier, Hoste.....	3.00@ 4.00
" Meteors.....	4.00@ 6.00
Carnations, long.....	1.00@ 1.25
" short.....	.50@ .75
Valley.....	.50@ 3.00
Adiantum.....	1.25
Smilax.....	15.00@20.00
Asparagus.....	50.00

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 Successor to PECK & SUTHERLAND,
 Successors to WM. J. STEWART,
Cut Flowers AND Florists' Supplies
WHOLESALE.
 67 Bromfield St., **BOSTON, MASS.**
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FLORISTS
 JOBBERS IN
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 METS,
 BRIDES,
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SAMUEL S. PENNOCK,
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 REAR OF 42 S. 16TH STREET,
Philadelphia, Pa.
 Mention American Florist.

THE LEADING FAVORITES:
American Beauty,
Bridesmaid,
Meteor,
Testout,
 And all other desirable roses, grown especially for first-class trade.

BURNS & RAYNOR,
 Wholesale Florists,
 49 West 28th St., **NEW YORK.**

SPRING, SUMMER,
AUTUMN, WINTER.
 In dull season and busy season.
 All the year round.

Roses, Lily of the Valley
 and all other choice stock
 can be obtained of

THOS. YOUNG, Jr.,
 20 West 24th St., **NEW YORK.**

WALTER F. SHERIDAN,
 WHOLESALE
FLORIST,
 32 West 30th Street, **NEW YORK.**

Roses Shipped to all points. Price list on application.

Edward C. Horan,
 34 W. 29th Street, **NEW YORK,**
WHOLESALE • FLORIST.

Careful Shipping to all parts of the country.
 Price list on application.

FRANK D. HUNTER,
 WHOLESALE DEALER IN
CUT • FLOWERS,
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JOHN YOUNG,
FINE ROSES
 WHOLESALE,
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FRANK MILLANG,
WHOLESALE FLORIST
 408 East 34th Street,
 Cut Flower Exchange, **NEW YORK.**
 ESTABLISHED 1884.

THEO. ROEHR'S,
 WHOLESALE
FLORIST,
 111 WEST 30TH STREET,
NEW YORK CITY.
 Established 1879.

Mechanic Falls, Me.

A very severe hail storm passed through this section September 5 at 5 p. m., doing a great amount of damage to farm crops and fruit. Hail stones weighing two and three ounces and measuring 2 1/4 inches in diameter were about the average size. Glass in dwelling houses was broken, apples stripped from the trees and plants of all kinds were nearly ruined. My loss on glass in greenhouses was 3,500 lights, 10x12 double and single thick. Seven hundred carnations out of doors were very badly damaged. My loss on plants and damage on glass will be about \$200. Geo. M. Roak of Auburn, Me., had 2,000 lights of glass broken, slight damage to plants. Scribner of Lewiston, Me., lost 1,100 lights.

To show the size and force of the hail stones a new corrugated steel roof on the machine shop is dented as though it had been pounded with a hammer.

W. F. MILLIKEN.

Houston, Texas.

Trade has been dull all the summer, but not quite so bad as last year. Things are beginning to look better, and the prospect for the fall and winter trade is good.

W. M. Bamberge, who has been in business on St. Charles street, is selling out and is going to Honduras, C. A., to collect orchids for some northern houses.

Wm. Kutschbatch has changed one of his houses into a "paper house," making the top and sides entirely of the new German substitute for glass.

The firm of Mrs. N. E. Westgate & Son is dissolved. Mrs. Westgate will continue the retail plant and cut flower business, and W. W. Westgate will take the wholesale part, wild smilax, evergreens and native plants; he is also starting a market garden a few miles outside the city.

M. V. Wright is building another large house.

WE LEARN from the John C. Moninger Co., of Chicago, manufacturers of greenhouse building material, that during the past season, in spite of the dull times, their business has considerably exceeded that of the previous year. This certainly shows faith in the future by a large number in the trade, and it is significant that of the many new houses reported in our news columns the great majority are additions to existing establishments and not new ventures.

IN THE advertisement of Mr. Edwin Lonsdale in our issue of September 8 the offer of field grown plants of Helen Keller carnation at \$3.00 per 100 was an error due to a slip of the pen in preparing the copy. The rate should have been \$3 00 per dozen, as it now appears in the adv.

The United Lily of the Valley growers of Schleswig-Holstein, Germany,

OFFER

Lily of the Valley Pips,

1st quality, warranted, at low prices
f. o b Hamburg.

Communications and orders address to

CARL STAMMLER, Director, Segeberg, Germany

READY NOW.

Per 100 Per 1000
Lilium Harrisii, 7-9 inches..... \$5.00 \$45.00
Paper White Grandiflora..... 1 25 10.00
English Milltrack Mushroom Spawn, per lb. 10c; per 100 lbs. \$8.00.

Just received, a large consignment of Black Callas, extra size, \$10.00 per 100.
Metal Designs and Florists Baskets. Special price list on application.

CHAS. SCHWAKE,

404 E. 34th Street, NEW YORK.

GLADIOLUS COLVILLI ALBA.

500,000 Bulbs in stock.

SPIRÆA COMPACTA GRANDIFLORA.

30,000 in stock for October delivery.

SEGERS & CO.,

Bulb Growers,

LISSE, near Haarlem, HOLLAND, Europe.

Write for prices

For

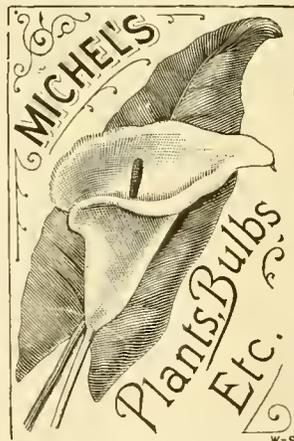
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PLANT TUBS. Replant your large plants in **OUR NEW PLANT TUBS** before housing them for the winter.

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8,000 PALMS, grown without any stimulant or extra heat; in the most suitable sizes for Florists. Will be worth twice their money in a short time.

COCOS WEDDELIANA, 3 1/2-inch pots, 15 in. high, 20 cts. each. LATANIAS, KENTIAS, CORY-HA AUSTRALIS and SEAFORTHIAS, all from 5-inch pots, from 1 1/2 to 3 feet high, at 30 to 40 cts. each; 2 1/2-inch pot plants, 5 to 10 cts. Ferns and Dracaenas in great variety. Otahete Oranges, with or without fruit. Gardenias, with buds. Violets from pots, and all kinds of bedding and basket plants, Greenhouse and Hardy Climbers, and a great variety of Hardy Perennials; the best varieties of Everblooming Roses, Ornamental Grasses, etc.

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SWAINSONA GALEGIFOLIA ALBA is rapidly forging to the front as an indispensable florist's flower, and we claim the credit of discovering its great merits, and pressing its excellent qualities to the wide awake florists of America.

Fine plants in bloom in 5-inch pots, at \$5.00 per dozen. Send for a sample dozen, in full bloom, to Money Order office, Station H, Phila.

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Prices Lower Than Ever.

Ready for shipment from July to September.

Calla Aethiopica, fine dry roots in all sizes.
Lil. Longiflorum, ready for shipment from October 1st to March 15, 1895.
Lil. Auratum, Spec. Rubrum and Album. Etc.
Iris Kämpferi, in 100 choice varieties.
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Camellias, Paeonies, Tree Ferns, Raphis, Cycas Revoluta, superb growing plants with fine foliage from 25 cents to \$5 each; fresh imported stems, true long leaf variety, roots and leaves cut off, delivered from March, 1895.

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Fresh and Reliable.
\$7 per 100 lbs.
Special price on larger quantities.

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The Best and Largest Stock in the World. New & Rare Foliage & Flowering Plants. A grand selection for Stove, Greenhouse and Conservatory.

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Our Mr. A. Dimmock will be pleased to interview buyers or reply to any communication addressed to him at 25 Greenwich St., New York City.

Kills Mildew and Fungus Growth. What does? **GRAPE DUST.** Sold by Seedsmen.

Nurserymen and Florists should have our new Trade List for Autumn 1894. Contains one of the largest and finest assortments OF ORNAMENTAL TREES, SHRUBS, VINES and SMALL FRUITS. Send for one.

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At greatly reduced prices to close out balance of stock.

Per 100
Perles, 4-inch, strong..... \$5.00
Mermets, 4-inch, strong..... 5.00
Ferns, Adiantum cuneatum and other choice varieties for cutting, from 4-inch pots, ready to shift..... 8 00
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Will exchange for No 1 Forcing Bulbs: Hyacinths, Tulips, Lily of the Valley and Double Von Sion Narcissus.

EVENDEN BROS.,
WILLIAMSPORT, PA.
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Choice Florist Seeds.

Pansy, Calceolaria, Primula, Cineraria, choicest strains, at 25 and 50 cts. per trade packet. Special quotation on BULBS.

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The Universal Horticultural Establishment, SOUTH ORANGE, N. J.
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Smilax Plants Cheap.

Out of 2 and 3-inch pots, also transplanted plants out of boxes. Never had as fine and large stock before. Please state number you desire and I will give you the lowest prices. Safe delivery and best satisfaction guaranteed with every shipment. Sample order 10 cts. Terms strictly cash.

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The Water Garden.

Special and Hardy Water Lilies of all colors.

VICTORIA REGIA and V. RANOI, EURYALE FEROX. Nelumbiums in variety, Hardy Ornamental plants, sub-aquatic plants, etc. etc. Nymphaea Laydekeri rosea (awarded a Medal at World's Fair); most charming of all the HARDY Lilies; \$2.50 each. Other Columbian Novelties see catalogue.

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SAVE MONEY AND SEND NOW FOR PAMPAS PLUMES. NEW CROP Just Ready, AT LOWEST PRICES.
PAMPAS GROVE, Greenland P. O., Fla.

Toronto.

Now that the big fair is over business is resuming its usual dullness; there are plenty of cut flowers of all seasonable kinds coming in, but I am afraid the demand is scarcely equal to the supply, though two or three stores report fair sales.

Now for the chrysanthemum show. The combined executive and chrysanthemum committees of the G. and F. Association will meet on the 24th inst. to arrange the final prize list and to discuss various other matters concerning the running of the show.

At the regular meeting of the association last week Mr. W. Lawrence, gardener and instructor at the Industrial School for boys, was present and gave an explanation as to what the school was doing in the florist line of business. At present there appears to have been very little harm done to anybody and a good deal of the trouble seems to have been caused by misunderstandings on both sides. Mr. Lawrence says it is to his interest to get the highest prices possible for goodsold. The committee appointed to consider the matter will report at the next meeting and it is to be hoped will make some recommendation so that a settlement may be arrived at. It is scarcely fair to Mr. Lawrence to keep a sword hanging over his head. In the absence of the president Mr. W. Muston handled the gavel with great circumspection and good sense. Some of the boys are anxiously awaiting a report from the committee to consider the advisability of starting a florists' section of the association. The holidays are over, the busy time is coming on, now is the time to meet and talk the matter over.

Mr. E. V. Low of the Clapton (Eng.) Nurseries, was in town last week. E.

New, Rare and Beautiful Plants

STROBILANTHES DYERIANUS. This is the most valuable novelty which has been introduced for years. For bedding is superior to the finest coleus. Withstands hot sun and dry weather better.

A Large Collection of Rare Hot House and Greenhouse Plants, carefully grown, at low rates.

ORCHIDS.—A very extensive stock; East Indian, Mexican, Central and South American, etc.

RARE AND BEAUTIFUL EVERGREENS, Ornamental Trees, Shrubs, etc.

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Catalogues on application

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Marie Louise,
strong, field grown plants.
Healthy stock.

ANDREW WASHBURN, Bloomington, Ill.
Mention American Florist.

Lady Hume Campbell Violet

Fine large field clumps . . . \$10.00 per 100
Strong Rooted Runners of the same
for Catalogue Trade. . . \$15.00 per 1000
5000 Ampelopsis Veitchii for Catalogue trade, \$30.00 per 1000; fine, strong plants.

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For Avenue and Street planting including an immense stock of MAPLES, ELMS, POPLARS, LINDENS, OAKS, in variety, of medium and large sizes. Estimates furnished.

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Special inducements are now being offered in plants of very high quality, at the lowest prices ever known. Such an opportunity to secure bargains in Orchids, Palms, Ferns, Azaleas, Genistas, Ficus, Stove and Greenhouse Foliage and Flowering Plants, Herbaceous Plants and Bulbs seldom occurs.

Write us your requirements and we will furnish estimate of cost.

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PALMS, ETC.

A full stock in the best condition possible; stout, perfect plants. All sizes up to elegant specimens.

ARECA LUTESCENS, LATANIA BORBONICA, KENTIAS, PHOENIX RECLINATA and P. RUPICOLA, COCOS WEDDELIANA, FICUS ELASTICA, CYCAS REVOLUTA, ARAUCARIA EXCELSA, PANDANUS UTILIS, Etc., Etc., Etc.

If you do not know the quality of my plants, try some. There are none better.

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CERTIFICATE OF MERIT was awarded for this sterling Decorative Plant at the convention held at Atlantic City, August, 1894. Send for price list.

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SMALL FRUITS, GRAPES, SHRUBS, ROSES, HARDY PLANTS, BULBS. Largest and choicest collections in America. FOR FALL PLANTING. Handsome new 160 p. Catalogue, best of its kind, free.

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Special offer for 30 days. Strictly Cash or satisfactory references with all orders.

	In. pot	In. high	No. of leaves	per 100	per 500
Latania Borbonica	2 1/2	8-10	2-3*	\$4.00	\$18.00
"	4	15-18	3-4	20.00	90.00
"	5	20-24	4-5	42.00	200.00
"	6	24-26	4-5	68.00	330.00
"	7	30-32	5-6	100.00	450.00
Seaforthis Elegans	3	12-15	3-4*	10.00	42.00
"	4	24-26	4-5*	18.00	83.00
"	5	5 feet	4-5	\$2.50 each.	
Corypha Australis	6	26-30	6-7	65.00	310.00
"	7	32-34	7-8	110.00	
Phoenix Reclinata	2 1/2	8-10	2-3*	6.50	30.00
"	5	22-26	3-4	48.00	
" Tennis	4	12-15	3-4	24.00	
"	5	16-20	4-5	48.00	
Kentia Belmoreana	3	10-12	3-5	20.00	
"	4	14-16	3-4	42.00	
" Forsteriana	3	10-12	3-4	26.00	
Pandanus Utilis	2 1/2	6-8		7.00	\$2.00
Draecena Indivisa	3	15-18		4.00	
"	4	20-24		8.00	

Star (*) denotes Seed Leaves or part Seed Leaves. The above are all well grown, strong plants, ready to pot up. Bound to give satisfaction. For other varieties and sizes see Wholesale List. Address

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Offers to the trade only good plants.
10,000 Araucaria excelsa; 30,000 Azaleas Indica; 20,000 Azaleas mollis; 150,000 Begonias and Gloxinia Bulbs, best varieties; 100,000 Palms, clean plants, all sizes; 10,000 Sweet Bays, standards and pyramids.
CASH WITH ORDER.

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(English.)
NEW IMPORTATION OF SEPT. 8th. Strictly A1, per 10 lbs. \$1.20; 100 lbs. \$8.00.

CANE STAKES.
Strong stock, in bundles of 250. Per 1000, \$5.00; 2,000 for \$9.50.

SPHAGNUM MOSS.
Large bales, extra clean for florists' use. Per bale, \$1.25; 5 bales for \$6.00.

BONE MEAL.
Every bag warranted pure bone. Per bag of 200 lbs., \$1.25; 1,000 lbs., \$17.00.

HORN SHAVINGS.
Coarse; 25 lbs., \$1.00; 100 lbs., \$3.00. Fine; 25 lbs., \$1.25; 100 lbs., \$3.50.

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Tuberous Begonias

(GRIFFIN'S STRAIN.)
Plants in bloom, all sizes, at lowest prices.
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CARNATIONS AND VIOLETS.
Marie Louise, strong, healthy, large clumps, \$6.00 per 100; \$55.00 per 1000.
The standard varieties of CARNATIONS, \$6.00 per 100; \$40.00 per 1000.
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Large, strong and healthy.

McGOWAN, SILVER SPRAY, AURORA, ANGELUS, HECTOR, GRACE WILDER, HINZE'S WHITE. }
 WM. SCOTT, \$12.50 per 100
 PURITAN, VAN LEEUWEN, DAYBREAK. } \$10.00 per 100

Price on application.

AMERICAN BEAUTY and other Roses, 4-inch.

A. S. MacBEAN, Lakewood, N. J.
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Thousands of the finest field-grown plants you ever saw, healthy and free from disease, dry weather had no effect upon our plants as they were grown on low lands.

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2000 EDNA CRAIG	6.00
1000 NEW JERSEY	6.00
500 WM. SCOTT	8.00
5000 SILVER SPRAY	5.00
3000 PURITAN	5.00
1000 PEARL	5.00
500 WHITE WINGS	5.00
1000 TIDAL WAVE	5.00
1000 HINZE'S WHITE	5.00
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LIZZIE McGOWAN, PURITAN } \$5.00
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The new Carnation; pure white, delicately marked with red.
 Strong field-grown plants \$3.00 per doz.; \$15.00 per 100. Second grade, six to eight blooming shoots, \$2.00 per doz.; \$12.00 per 100.
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 All the best varieties.
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2000 Lizzie McGowan; 1000 Portia; 1000 Hinze's White.
 All strong field grown plants, \$5.00 per 100. Cash with order, or C. O. D.
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 Field-grown Carnations—SOLD OUT.

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40,000 Field Grown Carnation Plants.

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 L. L. LAMBORN TIDAL WAVE PORTIA
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CARNATIONS.

LIZZIE McGOWAN, 1st size..... \$7.00
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 WHITE DOVE, extra fine plants... 7.00
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 UNCLE JOHN..... 15.00

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CARNATIONS.

1500 Field-Grown Plants left, the finest I ever grew; free from all disease; packed in first-class shape.
 GRACE WILDER, ORANGE BLOSSOM, PORTIA, ANNA WEBB, TIDAL WAVE, GOLDEN GATE, FRED. CREIGHTON, HINZE'S WHITE, at \$8.00 per 100.

500 LIZZIE McGOWAN, at \$7.00 per 100.
 1000 MARIE LOUISE VIOLET plants, fine, at \$7.00 per 100.

Also an extra fine strain of FANSIES—plants. This strain has been carefully selected from a number of the choicest strains. It is a No. 1. Plants for towering this winter, \$1.00 per 100; \$8.00 per 1000. Small plants for spring trade, \$5.00 per 1000.

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GEO. B. WHITEHEAD,
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Field-Grown Carnations.

UNCLE JOHN \$12.50 per 100
 THE STUART..... 12.50 "
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Ready for delivery September 15.
 TERMS: Cash with order.

F. DORNER & SON, La Fayette, Ind.
 Mention American Florist.

W. R. Shelmire,

AVONDALE,
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CARNATIONS AND COLEUS.

25,000 FIELD GROWN CARNATIONS

Nice healthy stock of the standard tested sorts in the Carnation belt.
 MUST BE SOLD. Please send list of your wants to
 BENJ. CONNELL, Carnation Grower,
 WEST GROVE, PA.
 P. S.—Also fine field clumps of the peerless Violet Lady Inne Campbell.
 Mention American Florist.

FIELD CARNATIONS SURPLUS STOCK.

PORTIA, ORANGE BLOSSOM, MRS. REYNOLDS, SPARTAN, AMERICAN FLAG, \$5.00 per 100; good medium plants.
 LIZZIE McGOWAN, 2nd size plants, \$4.00 per 100.
 All clean, vigorous, and free from disease. Cash with order.
 ALEX. McBRIDE, Alplaus, N. Y.

GOOD FIELD PLANTS

—OF—

Sweetbrier Carnation.

\$15.00 PER 100.

Other varieties on application.

EDW. SWAYNE,
 KENNETT SQUARE, PA.

CARNATION "BUTTERCUP"

Strong and healthy plants, pot-grown, in 3-inch pots.

\$8.00 PER 100. \$75.00 PER 1000.

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 CHESTNUT HILL, PHILADELPHIA.

CARNATIONS

Strong field-grown plants \$5.00 per 100.
 VARIETIES: S. Spray, Tidal Wave, Lizzie McGowan, Daybreak, Grace Wilder, Chester Pride.

G. VAN BOCHOVE & BRO.,
 Wholesale. KALAMAZOO, MICH.
 Mention American Florist.

Wm. Scott Carnations!

Large plants..... \$8.00 per 100
 Smaller plants..... 5.00 per 100
 Mrs. E. Reynolds..... 6.00 per 100
 Cash with order. Ready Now. Order Quick.
 GEO. HANCOCK & SON,
 GRAND HAVEN, MICH.

CARNATIONS

Field Plants Now Ready.

MRS. FISHER \$6.00 \$50.00
 THOS. CARTLEDGE, \$6.00 & 8.00 60.00
 Also other standard varieties all vigorous and healthy.
 C. J. PENNOCK,
 The Pines. KENNETT SQUARE, Chester Co., PA.

THE COTTAGE GARDENS,

Queens, Long Island, N. Y.

WHOLESALE CARNATIONS.

30,000 FIELD-GROWN CARNATIONS.
 Strong, healthy plants, \$5 per 100; \$50 per 1000. White Dove, White Wings, Lamboro, Mrs. Fisher, Blanche, Garfield, Grace Wilder, Purdue, Ben Hur, Mrs. E. Reynolds, Mrs. R. Hitt, Richmond, Attraction.

The following, \$8 per 100; \$75 per 1000: Silver Spray, Lizzie McGowan, Daybreak, Edna Craig, Tidal Wave, Wm. Scott, E. G. Hill, Portia, Fred. Dornaer, Golden Gate. Small plants one-half of above price.
 MARIE LOUISE VIOLETS, from 2-inch pots, \$3 per 100; \$25 per 1000. TERMS CASH WITH ORDER.

JOSEPH HEINL, JACKSONVILLE, ILL.

Carnations a Specialty

Rooted Cuttings and Young Plants sold out.
 Nice Field-Grown Plants in Sept. Send for prices.
 GEO. HANCOCK & SON, Grand Haven, Mich.

Baltimore.

With the advent of the first cool nights hope springs anew in every florist's heart, and every unnecessary bud he picks off his "mums" seems to bring him appreciably nearer to the "good time coming." True, very good buds may still be had at two or three cents, and snap lots at one, but they sell at that; a little while ago they didn't sell at anything, at least the most of them didn't, while now one can actually count three customers waiting in the Exchange at once sometimes, and orders on the books besides.

Speaking of the Exchange reminds us that "another Richmond's in the field," and there will probably be a brisk little battle for the "wholesale exclusively" trade between the "Ex." and Mr. J. G. Rodgers, who opens October 1 at number 117 Park avenue, as a wholesale commission florist. This is the third wholesale commission place started in town exclusive of the exchange. The first was Messrs. Perry & Dungan on Madison avenue near Biddle street; the second Mr. J. J. Perry, corner Park avenue and Fayette street. We trust the third time will charm in this case, and that Mr. Rodgers will succeed where the others failed. The city is larger for one thing, and the number of growers increases every year; besides it is a question whether a properly supported commission house would not have paid for the first.

The club did a wise thing at the last meeting in selling the booths at the coming chrysanthemum show by auction. The prices brought were not remarkable; possibly more money could have been made by selling at private sale, but is it not worth a great deal to have silenced the annual complaining and grumbling for once? The auction sale created quite a diversion, and the meeting was still further enlivened by a very practical and thorough essay on "Forming and planting lawns" by Mr. N. F. Flitton.

There will be two shows again this year, as Mr. Jno. Donn expects to exhibit his customary crop of beautifully grown monster plants at a hall in town, probably "Lehman's," from November 6 to 9 inclusive.

We had a slight attack of the Mount confidence game, only one victim showing up so far, a florist on Eutaw street, who was swindled out of two dollars by the check operation. The young man who is doing the trade must get more than we hear of, or else he will soon stop from a lack of funds.

Mr. I. H. Moss is putting up a large residence. Rumor has it that he is preparing a fine cage for a fine bird. The hachelors hereabouts have a bad attack of it this year.

Mr. Wm. Fraser has a seedling canna dwarf as Crozy, free as Crozy and larger flower, which is really as much of a prize as he thinks it.

Mr. John C. Lewis, who has an interest in Brackenridge & Co.'s Rosebank place, is in full charge there, and is showing the boys how they do it in Philadelphia.

MACK.

A. Farleyense Fern

2-inch.....\$12.50 per 100
3-inch..... 17.00 per 100
4-inch..... 40.00 per 100

Largest stock in the west. Satisfaction guaranteed.

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Absolutely Reliable Automatic Machine,

which may be set to operate at any temperature, and give any quantity of air desired for each degree temperature rises above desired point.

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Important Notice.

We wish to inform our many patrons and friends that owing to the death of Mr. Joseph Marschuetz the partnership heretofore existing as **Marschuetz & Co.** has been dissolved, and that we, the undersigned will carry on the business as before, with a complete line of

* FLORISTS' SUPPLIES, *

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Imported Novelties in

BASKETS, METAL DESIGNS, ETC.

and would be pleased to receive your orders.

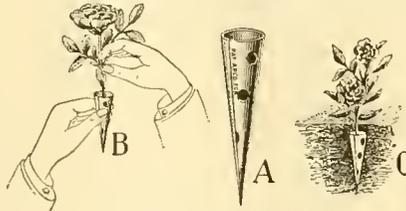
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Worcester, Mass.:

From now until the chrysanthemum show, November 13, 14 and 15, the weekly schedule of the horticultural society is devoted mostly to fruit and vegetables, with only one or two calls for cut flowers to help make the hall attractive. Stand and basket of cut flowers and display of asters (not to exceed forty vases) was called for September 20, and although the schedule was a short one a very good display was made. The following premiums were awarded: Asters, first F. A. Blake, second Ed Hall; basket (amateur), first F. A. Blake, second Mrs. E. C. Brooks; basket (florist), first Thos. Ward, second H. B. Watts; cut flowers, stand, first A. A. Hixon, second F. A. Blake.

Most of the flower buying public have returned for the winter, and there is a slight improvement in trade. The long monotony of doing nothing in the decoration business has at last been broken this week; Lange put in a handsome decoration and transformed the leading millinery house in this city into a bower of tropical luxuriance and floral exuberance, as the newspapers put it, and there are several good wedding jobs in the near future. While we are not wasting as many good flowers as we were a month ago good quality stuff is plentiful; funeral trade is good. SEEDLING.

Des Moines, Iowa.

The worst storm of hail and rain combined that ever visited Des Moines passed over about 3 p. m. Thursday, September 20, doing more or less damage to greenhouses, skylights and windows.

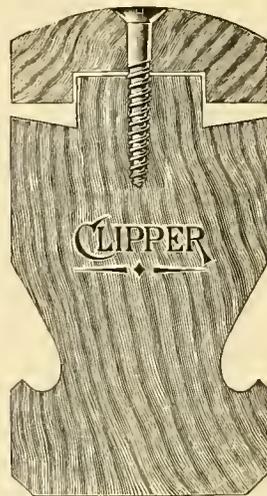
Hail stones as large as door knobs fell to the depth of several inches, followed by a heavy downpour of rain, which added to the already great destruction in the greenhouses.

The florists in the western part of the city appeared to be in the center of the storm, as there the destruction was most complete.

W. L. Morris lost 6,500 feet of glass and a large number of plants damaged by broken glass. He estimates his loss at \$1,000; partially insured. Peter Lambert lost 2,000 feet of glass and all his stock more or less damaged; no insurance. A. Anderson lost about 1,000 feet of glass; no insurance.

Several private places were completely wrecked and other commercial places suffered more or less severely.

W. L. MORRIS.



“Proof of the Pudding”

LEXINGTON, KY., June 4, 1894.

LOCKLAND LUMBER CO. Gentlemen:—The lumber received from you was to build a house 100x20, but instead it is now 104x21½ with plenty of pitch of the roof, ¾ span. I am more than satisfied with the good material you furnished me. Respectfully, JOHN A. KELLER.

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BRANCH WAREHOUSES: 713, 715, 717 & 719 Wharton St., Philadelphia, Pa. Randolph Ave. and Union St., Jersey City, N. J. Jackson Ave. and Pearson St., Long Island City, N. Y.

STANDARD FLOWER POTS

Every user of Flower Pots should correspond with us before purchasing elsewhere. Our facilities are unequaled.

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Announcement to Florists.

We desire to announce the dissolution of the firm of Sipfle Dopffel & Co., and to introduce to the trade its successor, The Syracuse Pottery Co., which will be under the management of William Dopffel and Conrad Breitswerth. The business will be conducted as heretofore, except on a larger scale to meet the growing demand for our goods. We have accordingly enlarged our plant and capacity, and with unsurpassed facilities are now prepared to fill the largest order on short notice. Our latest improved machines are turning out the best and most serviceable flower pots in the market, and assuring you of our intention to lead in further improvements we solicit a continuance of your patronage in the belief that we can supply just what is needed at a price and in a manner satisfactory to all.

Send for price list and samples and we know you will give us an order.

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If you are going to the Convention please examine our Flower Pots while there. To those who are not going we would simply say, “send in your order for large pots early.”

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1¼-Inch pots, per 1000	\$ 3.00	6-Inch pots, per 1000	\$22.00
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2½ " " "	3.50	8 " " "	50.00
3 " " "	4.00	9 " " "	75.00
3½ " " "	5.00	10 " " "	100.00
4 " " "	7.25	11 " " "	150.00
4½ " " "	9.00	12 " " "	200.00
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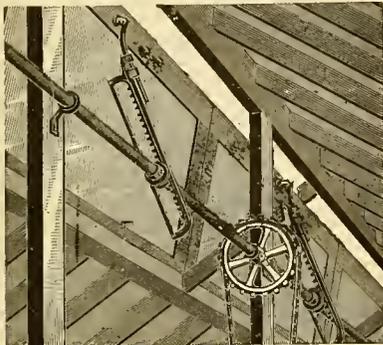


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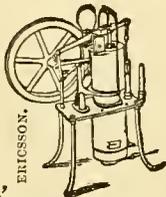


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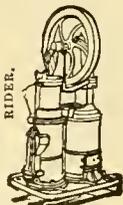


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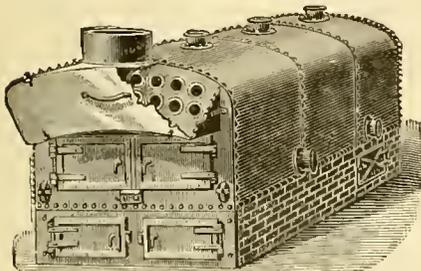
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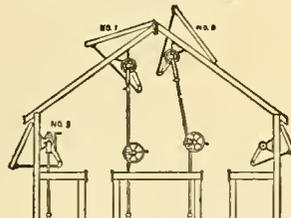
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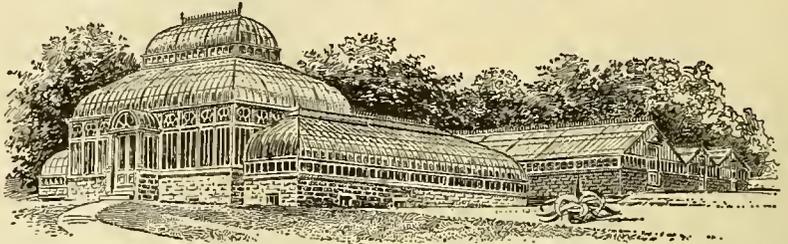
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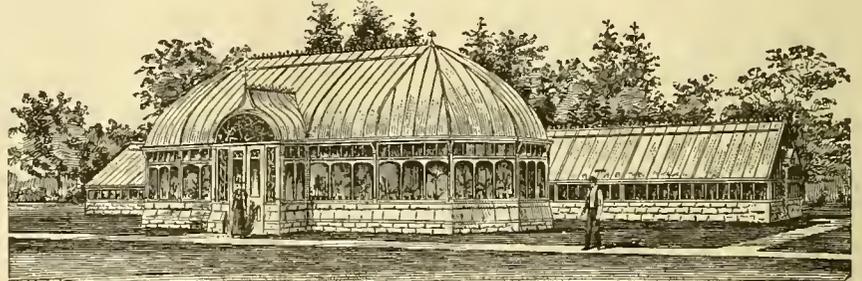
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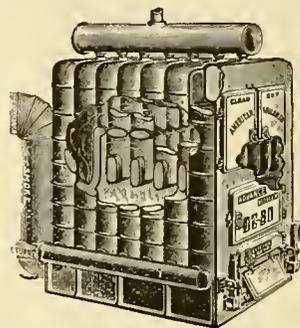
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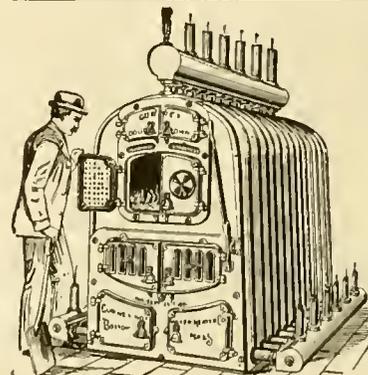
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Vol. X.

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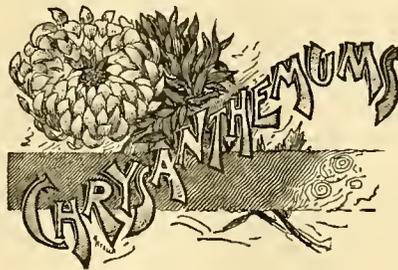
The new officers to be installed Jan. 1, 1895, are: EDWIN LONSDALE, Chestnut Hill, Philadelphia, president; E. C. REINEMAN, Allegheny City, Pa., vice-president; WM. J. STEWART, Boston, secretary; H. B. BEATTY, Oil City, Pa., treasurer. The 11th annual meeting will be held at Pittsburg, Pa., August, 1895.

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SAN FRANCISCO.—Mr. and Mrs. H. Neuberger are soon expected home from Germany, having arrived in New York September 29.

ATLANTA, GA.—A flower show will be held here October 31 to November 2 under the auspices of the Woman's Board of Managers of the Cotton States and International Exposition. Chrysanthemums will be the main feature, though prizes are offered for other flowers and plants in variety.



Chrysanthemum Notes.

Pick—pick—pick, pick off the sideshoots and buds. This is the principal work of the chrysanthemum grower at this time, and a tedious job it is, for it hardly seems that one can get them all picked off. Yet it must be done carefully and diligently, for the buds that are retained at the tip of the shoots, from which so much is expected, must have all the strength of the plant and receive all the benefit of the liquid manure that is given to properly develop them. Be very careful in picking out these buds and side growths, especially in the early morning, for the flower stalks and stems are very brittle at that hour and easily broken off, and many a grower, after having reached over the first row to disbud a plant at the back of the bench, has found, to his sorrow, that in so doing he has broken off a large bud that promised an exceptionally fine bloom, and one that he has exultantly watched for the last two or three weeks, thinking that he surely had a prize winner, now to find his hopes dashed to the ground by one careless movement of the hand or arm.

Keep up the liquid manuring and make the solution a little stronger. You may have the best plants and largest buds now in your vicinity, but it is four weeks and over to the shows and it doesn't pay to count your chickens before they are hatched, so keep up your best efforts or your competitor may yet get ahead of you. If you are using nitrate of soda or potash continue it until the flower begins to develop. A little sulphate of ammonia will now make the buds more rapidly, but use only a very weak solution.

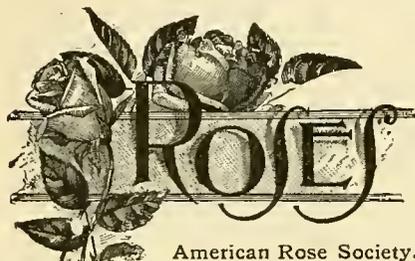
If there are any aphids on the plants now go for them red hot, smoke often and if that does not rid the plants of the pest smoke heavier, only be sure, if you have to smoke heavily, that the plants are fairly wet before doing so, for if they are in a dry condition you are very apt to burn or scorch the foliage, and a flower with scorched foliage no matter how fine the bloom may be is practically worthless for either commercial or exhibition purposes. If the mornings are pleasant and bright after smoking give the plants a good syringing, for this will not only help to keep down the aphids, but will improve the plants, and a light syringing occasionally on any pleasant morning

will help the foliage and growth, even if you are not fumigating. But on no account do this on dark lowering mornings, or after the bud has burst its calyx, for in the former case the water will remain too long on the bud and chill it, and in the latter work its way into the center of the flower and may discolor it. Again, let us impress on your mind the necessity of keeping the blooms well tied up, for the sap flows quicker and consequently they will absorb the liquid manure much easier than if allowed to bend over and the stem grow crooked, besides detracting from the attractiveness and value of the flower.

We received the other day an inquiry as follows: "Will you please give us some idea as to what we should charge for chrysanthemum plants in bloom in different sized pots." At first this looked like a very difficult question to answer comprehensively, for in the first place some growers have plants that are plants, and others plants that are—well, scarecrows is as good a word as any, and then again some will pot a plant in an 8-inch pot that others would grow in a 6-inch. So not knowing what the inquirer's plants are we may not perhaps be able to make our answer satisfactory, but we hope that they are of the best class and will act accordingly. Another thing that will have some bearing on the question is the competition that one has, but we are firmly of the belief that any good product is always worth what can be obtained for it, so we place our prices according to our situation. But we will try and place a fair valuation on good plants, such as we have seen placed on the market. A plant grown in a 6-inch pot bearing six to ten good flowers well disbudded and with fine clean foliage nearly to the pot ought to bring the grower at least a dollar, and if not disbudded 75 cents. A plant in a 7-inch pot in good condition as above, carrying twelve to fifteen flowers one dollar and a half or three quarters, and not disbudded a dollar or a dollar and a quarter, and if the foliage is not clean less. A plant in an 8-inch pot in fine condition with twenty good blooms should bring the grower two dollars and a half and a dollar and a half or three quarters if grown to sprays or if the foliage is poor. These are retail prices in good competition, and are for good bushy plants, well grown and neatly tied up, and not over two feet and a half high. If the plants have been allowed to shift for themselves during the summer and now stand from three to four feet high, bearing a small head of tangled up, insignificant flowers, at the end of long stems denuded of foliage, tied closely together, round about, with a white cotton string to three or four thick rough sticks, the grower had better take up with any offer he can get, not trying very hard to get the highest market price, and make up

his mind that he will grow better plants next year. As we said before the price will vary very much, as to locality and competition, but we believe that plants can be grown at these prices, and give the grower a fair remuneration for the labor that has been spent upon them. We have not placed any value on plants in larger than 8-inch pots, for when we come to take into consideration the cost of growing and tying up first-class plants in 10 or 12-inch pots, and then add on a fair profit, the ordinary customer would be scared at the price that would have to be asked and wonder if you were not trying to set a price on the whole crop.

ELIJAH A. WOOD.



What a National Rose Society can accomplish is greater than any of us can foresee at this time, but I have given this subject considerable thought and the following are a few of the points such a society can (if funds are forthcoming, which means if we can get liberal patronage) take hold of with great advantage to the entire trade of this continent.

Since the Carnation Society was established no one can deny the advancement of that flower has been greater, and a much greater improvement not only in the flower itself but in almost everything appertaining to it, than had been in twenty years before, and the ground is only just broken as yet. Five years hence will see wonderful results of this work, if I am not greatly mistaken. With such results as these with the carnations what is there not in the future for the "Queen of Flowers" which everyone must admit has a far wider scope than its companion, beautiful as the "Divine Flower" may be.

First, the establishment of a tribunal to examine and award medals, certificates, or diplomas as deserved of all improved new varieties of American origin, so that the possession of such awards may be an absolute guarantee that the variety possesses the qualities claimed for it. The wording of such awards should cover all and every point of merit and give also the weak points where such exist. This would be a great boon to everyone who ever buys a new rose.

Second, diseases and remedies. Here is a subject which, if treated rightly and carried out fully as it deserves to be, would be of untold value to everyone engaged in growing roses, and within itself should be an inducement for everyone to join the National Rose Society and in that case there would be ample means of carrying out a system of experiments under the most skillful management to be found in the country whereby all diseases could be traced to their foundations and the right remedies for preventing them found. Now, while this looks like a big job yet I am convinced it can be done with united action; and as every year or two something new presents itself in this line it will make it all the more necessary to get the machinery in motion as early as possible. Will you not help us?

Third, fertilizers, how best to apply, when to do so and the kinds most suitable

and their relative value. We have had from time to time able and very valuable articles on this subject but I think there is ample room for an abundant amount of information which will be of great value to us all on this subject, conducted, as it should be, on a strictly practical and scientific basis, covering, as it should, the different classes of soils and what they are deficient in or of what they have a surplus of as related to plant life and their fullest possible development.

Fourth, testing all new varieties of foreign origin. This would be a great saving to all our importers in money outlay, and save the buyers after from spending a great deal of money uselessly, and a great deal of annoyance which they so often experience. As the matter stands now glowing descriptions and greenbacks exchange places very frequently and the party getting the greenbacks has all the glory there is in the bargain. Is this a fair trade? I think not, neither do my brother members of the A. R. S., therefore the quicker we can make it easy to get a fair deal the better for all interested.

Fifth, rose exhibitions. To disseminate a wider knowledge and love for this flower a system of exhibitions to be held over the entire continent can be established on such a basis that every class of roses shall be represented at them, the same to be exhibited in various ways, such as cut flowers, pot grown, both large and small sizes, trained and grown naturally so as to show their adaptability for different purposes. For judging at all such exhibitions a code of rules can be laid down from which no deviation should be allowed; this would give everyone an equal footing, whether amateur or florist, large or small grower, and in a very short time raise the standard of the rose and the business of the florist to a much higher plane than they have at present.

The above are only a few of the points wherein the R. S. of A. can do good. If my readers will only think as the charter members do its success is assured. The above items point to an experimental station which should certainly be established at the earliest date possible but it cannot be done without liberal support from all parties interested, and who that loves flowers or grows them for profit is not deeply interested?

This society was re-organized at Atlantic City last August and the officers elected were Robt. Craig, Phila., President; John H. Taylor, Bayside, L. I., Vice-President; H. B. Beatty, Oil City, Pa., Secretary, and for Treasurer.

Yours truly, JOHN N. MAY.
Summit, N. J.

A New "Scale."

A subscriber recently sent us a rose twig covered with what seemed to be a formidable new form of scale. We submitted the specimen to the Government Entomologist at Washington and append the reply received.

In the absence of Mr. Howard I beg to acknowledge the receipt of your letter of 17 instant, transmitting a portion of a rose plant with supposed new scale insect on the stem. The supposed new scale proves to be the eggs of one of the green-winged locusts or katydids (*Microcentrum retinervis*) and certainly sufficiently resembles scales to be easily mistaken for them by a non-expert. These eggs are deposited by the female cricket on any small twig and do very little damage except in the case of very tender twigs where they may prevent the normal growth.

They are so rare, however, as to be of no serious moment. C. L. MARLATT.
Acting Entomologist.



TO PREVENT RUST.—Dissolve one pound of sulphate of copper in two quarts of ammonia in a 2-gallon jar. When dissolved add another quart of ammonia and stir well. [The liquid can be kept in this form for some time and used as needed.] Add a pint of this solution to a barrel of water and syringe the plants with a force-pump every two weeks. And don't let the time for spraying pass without attending to the operation.

Mr. Herr Says Adieu.

It is now about a year that I have been talking carnations to you. We have come around to the starting point again, and it is well to have others give their experience in a different soil and with different treatment from mine.

I hope you have learned something from me the past year that will be of practical value to you. I also want to beg your pardon for the shortcomings, which in a glance over the articles I find are many indeed.

We can not recall the past, but we can learn a lesson from it for the future, and let all of us who love carnations unite in placing them still higher on the pinnacle of fame. The possibilities of the future for carnations are many and we should use all our care and attention to attain those possibilities.

ALBERT M. HERR.

Carnation Notes.

"Why do you water your carnations on such a day as this? Do you not know that the wind is blowing a gale from the northwest and it is beginning to rain? Why, Charlie, it will ruin your plants; if the soil is a little dry I would leave it until to-morrow." These remarks were made to me by one who has been growing carnations since he was a boy, and that was over forty years ago. He seldom, if ever, produces a flower over two inches diameter, and he is satisfied with stems one foot long. My answer to him was "go through my houses and find a plant suffering from overwatering, and then come back to me and report."

"Well, how are they?"

"All right as far as I can see."

"Now, old friend, I will ask you a few questions. Does the sun shine when it is raining? Do plants of any kind make long stems and large flowers outside if there is no rain and the soil becomes dry? Well, it is just the same inside. Never allow the soil to become dry or in a powdery condition if you wish A1 flowers. You question the advisability of my watering to-day. Is not the mercury standing at 65° outside? Is not the wind blowing through these houses sufficient to dry the foliage in the two houses? Well, when these are the facts you can water your carnations as much as you wish and the plants wish for and need a great amount of water when the weather is as warm as we have had since planting inside. Of course you can get the soil too wet, but if the bottom boards to your benches are one-half inch apart the surplus water will run off unless you stand by a bench and water it all day long."

"How about manure water?"



PLANTING AT THE EXPOSITION OF 1894 AT LYONS, FRANCE.

"Well, I am sorry to say that my water system is such that I am obliged to pump it from a barrel, but next season I will have it so arranged that I can give the plants a very little every time they are watered; this I believe is the best plan, as the plant can assimilate the food much better if applied in small quantities. We use one pound nitrate of soda to fifty gallons water, one peck sheep manure or one peck fresh cow manure to the same quantity water once a week, alternating the above mixtures, thus bringing each mixture three weeks apart. We also use sheep manure as a top dressing; this keeps the surface of the soil loose, thus doing away with the necessity of loosening the soil, for the carnation roots run right up to the surface, and it is unwise to disturb them." CHARLES H. ALLEN.

Florists' Work Outdoors.

There is a large number of florists all over this country who do other work than greenhouse work, and work of the very highest importance too in a gardening sense, yet nobody seems to pay much attention to them, because it is regarded as jobbing gardening, and so it is, but how cumulative its results are, and how telling they might be, perhaps but few even among the florists have considered. I am disposed to believe that hundreds of florists might do a great deal this very month to popularize their art if they would, and that too at comparatively small cost to their clients.

Now is the time for them to persuade their customers to prepare a good bulb bed or two. Tulips, hyacinths, narcissus, fritillarias, irises, lilies, snowdrops, cro-

cuses, etc., should be got into a good bed of soil as soon as they can be had, and if the soil of the bed is not good enough try if you can't sell a cart-load or two of good sound sod soil, for there is nothing better than such as you use for growing your own bulbs in. If planted at once in good soil they will make their roots before the soil is too cold, and of course bloom splendidly.

Most of the herbaceous plants also should now be divided and overhauled where necessary—in fact far north it is getting full late for the work, but southward it can well be done all through October.

There are a good many very pretty things which may be used to carpet the bulb bed with other than pansies and daisies. For instance, *Polemonium cœruleum variegatum* planted between yellow *Pottebakker* tulips makes a superb changeable bed in some sections. Such a bed may have an edging of any variety of *Iris pumila*, which the observation and experience of the florist has shown him to be in flower with either the *polemonium* or the tulip. Again, pink tulips may be intersected with the white varieties of *Phlox subulata*, and edged with *Viola pedata*. In this case experience of the average season of bloom will be necessary, for the pink and purple together are hardly desirable, but if your soil and situation happens to bring the tulips in flower first, and the carpeting plants in succession the white and purple will be beautiful. If the bloom is simultaneous it would be better to use the white variety of the violet.

Besides a special spring bed or two very

many opportunities exist for the florist to recommend plants for the borders and supply them, especially to such of his customers as leave home in the summer and care but little whether the geraniums flower or not. There are various hardy anemones, *ranunculus* and *trollius*. *Adonis vernalis* is but rarely seen. *Cheiranthus alpinus*, *arabis*, *aubretia*, *alysum* and *iberis*, with *Viola pedata* in its better varieties, are but little used. *Saponaria ocymoides*, *Silene pennsylvanica* and *Claytonia virginica*—how many florists have thought of using them to heighten the pleasures of their customers who are at home in May, but in Europe when the geraniums bloom?

Then how many city lots are there where the introduction of a few clumps of the modest bluet, *Houstonia cœrulea*, would give untold delight and perhaps surprise. For a patch of orange yellow in the vicinity try another native plant, *Senecio aurea*; it will do either in a moist or dry spot. *Epigæa repens*, the May-flower, is not so easy to transplant, but some herbaceous men keep it in pots, and for those who will invest it will be almost a triumph to show it in a garden. *Primulas*, *polyanthus* and *dodecatheons* are almost as rare. They do better under the snows of the north and the cool summers of the lake country, than further south, where they require the shade of a small tree, mulching summer and winter, and plenty of water, under such conditions they endure well.

How seldom we see *Gentiana acaulis*, or *G. verna*! With the tariff entirely removed they are worth importing every year, so beautiful are they; but in some of

the mountain regions they may perhaps find themselves quite at home. Phlox, polemonium, Pulmonaria cœrulea, Mertensia virginica, myosotis and Onosma tauricum where it will succeed, what a group of beauties are they!

I don't believe I have ever seen a florist make the least use of *Lamium maculatum* and its variety album. I venture to say a good bed of them, either in zones of color or in intersection would cause lots of inquiry. They are never seen beyond the cottage garden, or hardly ever. *Ajugas* again are but seldom seen. *Daphne Cneorum* may be planted also at this season, and those who once know it will talk of its beauty and perfume to all their friends. There are very many bulbous and rhizomatous plants which may receive attention as soon as possible. They may be planted in the grass, in the borders, or in the bare spots on the south side of shrub groups, sometimes being helped along with a barrowful of good soil, in place of a barrowful of bad soil dug out. *Leucocjum*, *allium*, *muscari*, *Bulbocodium vernum* and *trilliums* are but rarely seen in town gardens. Nearly all may be planted now.

Trenton, N. J. JAMES MACPHERSON.

A Reduced List of Sweet Peas.

It will be an advantage all round, for grower, seedsman and floral public to, as soon as practicable, drop from the list of sweet peas nearly a score of varieties. This may be a startling announcement for the majority of seed houses, for I would throw out as no longer worthy to hold rank among modern sweet peas almost the entire list that some reputable houses have had in stock up to date. I do not mean to say this purging of the list can be carried into effect all at once. When the 1894 crop is all in there will be a good many tons of seed of the varieties we must begin to think of dropping, and that seed is already contracted for, and will be distributed among the trade for this winter's stock. It is time to sound the note of warning. The California growers will probably begin to plant this fall as early as October, and I feel confident they will be glad to discard the varieties I shall name, or at least will plant them only on special orders, and those special orders will come from such houses as are not posted. It is only an aggravation to the California growers to put in acres of the old unimproved sorts, for the mid-day sun there scalds and burns the standards of each blossom into an unrecognizable condition. The improved sorts are not affected that way. An acre of *Adonis* or *Crown Princess* of Prussia is an eyesore to the California grower. While the fertility of the blossoms is not affected, and they pod all right, yet who wants these old sorts when the same colors may be had in improved form, and when the growers are ready to substitute acres of *Miss Hunt* for *Adonis*, and acres of *Venus* for *Crown Princess* of Prussia?

Let me say I have just picked up at random the '94 catalogue of a very reputable house. Their list of sweet peas names seventeen varieties. Nine are given under the common head, and eight under the head of "Eckford's New Hybrid Large Flowering Sweet Peas." Of the first nine I consider four worthless, and of the eight others four of them are the very poorest Eckfords, and will be included in the cast-off list, while five of the eight are not at all large flowered. Actually that house was last season five years behind time on this flower.

I can see also that the English trade is tired of handling a list that is needlessly

cumbered with outgrown sorts. The growers are certainly ready to plant acres of improved varieties in the place of acres of the old ones. And since in a former article we have discussed the matter of growing the improved varieties it is time now to tell which may be discarded.

There are seven old sorts, which, when Mr. Eckford began his work on this flower eighteen years ago, were in existence. They are the Light Blue and Purple, Painted Lady, Common White, Scarlet, Scarlet Striped, Dark Striped and Black. I am pretty sure these are the original seven, although *Adonis*, *Crown Princess* of Prussia and *Common Purple* are in size and quality no improvement on them. And we must add to this class now *Vesuvius*, *Violet Queen*, and even such Eckfords as *The Queen* and *Queen* of England. About all the value the varieties thus far named have is that they are a good basis to hybridize or to develop from. These have either been left behind by improved sorts or have never had merit enough to commend them. And then there is no danger of losing these inferior sorts because they will persistently reappear in reverted stock of what will be grown for improved varieties. Every old distinct variety will last while time lasts. For instance in every stock of *Apple Blossom*, grown for quantity instead of quality, *Painted Lady*, its old original, will reappear, or at least a percentage of it will be half way reverted to the latter. A poorly grown stock of *Senator* will be found already to be little better than the old *Purple Brown Striped*. I saw several acres in California of what the growers had planted for *Purple Prince*, and it may have come from Eckford's true stock three years ago, but it was nothing but an inferior purple as I saw it.

There is some question still about dropping the old sorts. A very well informed English seedsman said to me, when I told him I should drop *Painted Lady* and let *Blanche Ferry* have the field, that we could not well do that just now, for unfortunately the California stock of *Blanche Ferry* is badly tintured at present with the blotched markings that have taken the name of *American Belle*. The English folks probably have pure *Painted Lady*. But it takes nearly twenty-five tons of *Blanche Ferry* to supply the trade. It has practically driven *Painted Lady* out. We shall get our *Blanche Ferry* down true again, and who will want the old weaker pink and white then? The *Nellie Jaynes* I have tried again this year with more satisfaction. It is simply an improved strain of *Painted Lady*, and will supply for those who love the old original the modest pink and white in pure stock and somewhat improved form.

That gentleman from England also questioned whether *Crown Princess* of Prussia could be dropped. I think the only question is whether our growers can now supply us with *Venus*. And certainly in another year the quantity and cost of the latter can be made to meet all demands. There may be a little question about dropping *Adonis*. It is just a shade different from *Miss Hunt*, but that shade is in the latter's favor, while the *Adonis* is one of the smallest of all the old sorts.

Then the question of white varieties is a little troublesome. It stands just like this: *Queen* of England is very ordinary, hardly distinguishable from the commonest old white; *Emily Henderson* plays an unaccountable trick about not germinating well, and I hear complaint about its reverting, quite a percentage to *Blanche Ferry*. Personally I have great

faith in its riding clear of all these erratic traits, and leading the field of white seeded whites. I have heard no American amateur or florist dispute its excellent qualities after being brought into bloom. *Mrs. Sankey* is a noble white. Its pink blood betrays it occasionally. Eckford's new *Blanche Burpee* is now ready, I believe, to make its American debut, and to challenge all whites. I saw a stock of *Alba Magnifica* in California that pleased me. It had a good deal of the *Emily Henderson*'s stocky character. I do not believe the public will pay a novelty price for *Emily Henderson* again. Europe will doubtless send us considerable white seed, and since the German houses send largely under names describing color, they probably would not bother about calling white *Queen* of England even though it came from Eckford stock. But we have got to unburden our list at that end, and it is to be hoped that both the names *Common White* and *Queen* of England will soon disappear.

I probably shall not be thanked by Messrs. Laxton of England for putting *Vesuvius* on the discarded list. But no florist counts it of any value. And *Carmen Sylva* will also have to follow suit. The other Laxton varieties are less objectionable, but by no means approach Eckford's novelties.

One Boston house is ambitious to swell the list of sweet peas. Their latest is *Harvard*, but there is just as much reason for calling Eckford's *Captain of the Blues Yale* as to call his *Cardinal Harvard*.

Then such Eckford varieties as *Empress of India*, *Isa Eckford*, *The Queen* and *Bronze Prince* have so completely been left behind by later work that they are very inferior. And we shall soon have to say the same of others. All this implies that we have a splendid list left which should not be degraded by these inferior sorts. I would therefore begin to plan at once to drop the following varieties: *Adonis*, *Black*, *Bronze Prince*, *Carmen Sylva*, *Crown Princess* of Prussia, *Empress of India*, *Isa Eckford*, *Light Blue* and *Purple*, *Painted Lady*, *Purple*, *Purple Brown Striped*, *Queen* of England, *Scarlet Invincible*, *Scarlet Striped*, *The Queen*, *Vesuvius*, *Common White*. I would let some others remain a year or two longer, but more will soon have to go. Even such a fine variety as *Boreatton* will have to go as soon as we get stock enough of *Stanley*. And I have passed over *Duchess of Edinburgh*, *Imperial Blue*, *Indigo King*, *Primrose*, *Carmine Invincible*, and others that have had their places more than made good. And with all these put on the retired list there will still be fifty sorts, most of them grand, and a monument to the patience and skill of Mr. Eckford.

Let us see just "where we are at" now in sweet peas. Six or seven new Eckfords will be offered this year to the trade: *Eliza Eckford*, a rose flaked and striped; *Duke of York*; *Duchess of York*, the latter a pink purple stripe on white ground; *Mrs. Chamberlain*, another reddish stripe; *Meteor*, an orange salmon; *Novelty*, orange scarlet. *Blanche Burpee*, the new white, I believe is ready. *Britannia* is another English variety just out, a development of the blue and purple. The growers must have these at the introduction price to start their stock, and a few "cranks" like myself must "keep up with the procession." Last year's novelties I find hear much higher praise than I have given them. *Lady Beaconsfield*, *Lady Penzance*, *Ovid*, *Peach Blossom*, *Royal Robe* and *Stanley*. If our growers will hold them up in size, substance and form



A GLIMPSE OF THE FLOWER MARKET OF PARIS, FRANCE.

at what Eckford has made them, the permanency of the new sweet pea popularity is assured. Only a few houses will list these this year, and they can be had only by the ounce at most, but that will be an improvement on sealed packets of ten seeds each.

On the 1893 novelties we are ready for business. Every reputable house should have them this year, and the growers should plan their next stock of them on a liberal scale. They are very fine—Blushing Beauty, Duke of Clarence, Emily Eckford, Firefly, Gaiety and Venus. I sincerely hope every grower will put an intelligent man on to these, a man with

the enthusiasm of a specialist. Mark the finest plants for seed stock. Better still I would plant seed stock by itself and give it the highest culture, give the vines support, and give heed to that simple fact that a vine overloaded with pods will necessarily produce deteriorated stock. My English friend said he would give the sweet pea fad three years longer to run. But that all depends on whether the Eckford novelties brought out in the last three years are held up by the growers at their best. The 1892 novelties were led by that magnificent flower Mrs. Eckford, with Her Majesty, Dorothy Tennant, Lemon Queen, Ignea and Waverly;

it was then Mr. Eckford struck the high mark which he is holding well. I will not answer for the seed that was sent out last spring under any of these names. I simply know that true seed of them all has produced under my eyes flowers of rarest merit. Our growers should supply the market with them, and the grower that grows for quality will in three years command the market at a price that pays him for all special labor.

Our growers should also give us a liberal supply of the following well tried Eckfords: Apple Blossom, Boreatton (until Stanley takes its place), Captain of the Blues, Countess of Radnor, New

Lottie Eckford, Miss Hunt, Monarch, Mrs. Gladstone, Mrs. Sankey, Orange Prince, Princess of Wales, Princess Victoria, Senator and Splendour. The following Eckfords are the least desirable: Bronze Prince (dropped), Cardinal (must give way to Firefly), Delight (of little merit), Duchess of Edinburgh (inferior to Princess Victoria), Empress of India (worthless beside Blanche Ferry), Imperial Blue and Indigo King (equal in size and both now inferior), Isa Eckford (must yield to Peach Blossom), Primrose (Mrs. Eckford should have the field), Purple Prince (not sufficiently distinct), Queen of England (very inferior), The Queen (dullest of all Eckfords).

Of the other old English sorts the following are valuable: Butterfly, Captain Clarke, Fairy Queen, Princess Beatrice, Queen of the Isles and Violet Queen(?). Laxton's Princess May has spoken well for itself this year. Etna, Madam Carnot and Rising Sun deserve further trial. The German Bronze King is somewhat interesting with its coppery standard and ivory white wings.

When anyone says to me the sweet pea is having only a short lived run I answer, we are but just getting to a healthy interest in it. We are only just ready to put the last three years' novelties into everybody's hands, and I am willing to risk the permanent popularity of the new sweet pea on a dozen of the latest sorts.

W. T. HUTCHINS.

Winter Flowers.

There are a great many plants which are very useful for the purposes of the general florist, and yet not suited to the exactions of the market grower. There are a great many plants which a lady will buy at sight, which would not pay the wholesale grower at all. Begonias are among these. I would not myself grow a stock of many of them, but as their cultivation is similar, there can be no harm in carrying quite a collection, limiting the number of each variety to a very few plants. If they are nicely grown and flowered they are salable.

Clitoria mexicana and *C. Plumierii* may be got into flower in 6-inch pots with a few sticks to climb on, a plant or two would certainly find customers. *Curcuma Roscoeana* again is another plant scarcely ever seen, but certain to attract attention.

Strobilanthes glomeratus, *S. anisophyllus*, *S. isophyllus*, and the variegated *S. Dyerianus* recently brought to notice, belong to a large genus very fully distributed through India and the Archipelago as far east as the Japan Islands. There are about 180 of them in herbaria at Kew and botanists have loaded them with endless synonyms. There are many mountain species, mostly blue flowered, and those mentioned do well planted out, and lifted for winter bloom. Cuttings should not be taken too early however, or the plants will become too large, they are of little use for cutting. *S. Dyerianus* may possibly be of use as a bedder. It is a good grower outside.

Holmskioldia sanguinea is an exceedingly pretty thing, with which I once held up Sir Joseph Hooker. He "knew it perfectly—but—hum—can't think of it." His fellow traveller however, Dr. Thompson had it already on the tip of the tongue. *Linum trigynum* is becoming well known. *Scutellaria Mocineana* is something I don't often remember having seen. It comes in well as a winter bloomer. *Siphocampylos microstoma* again is entirely forgotten; I would not know where to find a plant if I wanted it

and I might also say the same about *S. bicolor*.

Among plants requiring but little less heat to bloom the abutilons have been handled by most florists. Like begonias I should not carry too many of a kind. There are a few of the South African aloes which are quite pretty in bloom in winter and they are good window plants, easily kept manageable in size by cuttings. *Crinum Mauritium* is a late flowerer, which is worth trying.

Ericas are being tried more than for some years past. *Archeriana*, *Bowiciana*, *cerinthoides*, *c. stricta*, *gracilis cernua*, *nigricans*, *Sebana rubra*, *taxifolia*, *vernix ovata*, and *verticillata major* are among my notes as October bloomers. Butericas should be touched with caution by novices. They are among the things that require very vigilant attention to detail. Fuchsias of the winter blooming varieties should not be forgotten.

Has anyone seen a plant of *Lobelia coelestis* in this country, or is it in cultivation?

Mesembryanthemum and *oxalis* both give large numbers of fall blooming species, some of which are found in greenhouses, but rarely brought out at their best. I would like to know what is the matter with the various *rhapiolepis*? I have not seen one in years.

Sanseveira guineensis is liked I find by some as a window plant. It may be had in flower during October. Perhaps the very best neglected plant of any of these is *Schizostylis coccineus*. Seed sown in March, pricked several together in small pots as soon as up, and planted out at bedding time, will flower finely by the next autumn. I think it would take better than tulips.

Tropaeolum azureum is probably too troublesome a subject for the average florist. I have seen it and tricolorum, etc., well done in the northern sections of the country however.

Trenton, N. J. JAMES MACPHERSON.

The Forcing of Hardy Plants.

[Read before the Gardeners' and Florists' Club of Boston, by Charles J. Dawson, October 2, 1894.]

The subject which I have selected though in a comparatively primitive state, has become quite important the last few years. Such plants as Dutch bulbs, hybrid perpetual roses, deutzias, lilacs and the like have been a prominent set of plants, grown for winter flowering for years past, but outside of these few things hardy plants for forcing have had a very narrow scope.

From Christmas until spring opens the private gardener usually seeks to have something odd or rare in bloom to please his employer; and so it is with the energetic retail florists of the large cities; they endeavor to have something out of the ordinary run of greenhouse flowers to please their rather eccentric customers. It is this call for flowers, outside of the regular line of florists' flowers, as roses, carnations and violets, with the ever changing fashions in flowers, which requires something new or strange, which makes it desirable that florists and gardeners should turn their attention to the forcing of hardy plants, many of which are very easy to handle, but if handled with care will keep as well as many of our regular greenhouse plants. Few florists have attempted to force hardy plants and fewer probably have any knowledge of what might be forced; their time having been devoted to that class of plants which the general market demanded. The gardeners of private estates have a better knowledge of these plants, and it is to

these men that the horticultural world should look for advice in such matters.

In regard to the commercial part, I can not say what the profit would be on forced plants, but in my mind there are many hardy plants, which are not commonly forced, which if proper attention were given to propagation and forcing, would prove as profitable as many other branches of the business. For instance, a few years ago my father had in bloom a week before Christmas a few most beautiful tidy plants in 8-inch pots of *Pyrus baccata* var., the ornamental flowering crab apple. Beautiful sprays of delicate pink apple blossoms a foot or so long might have been cut from these plants, or the plants might have been sold as pot plants at a good price. If the time were taken to work up a good stock of such plants as I shall mention I have very little doubt but what the grower would have found a ready market for his stock. While many of these hardy plants will force with little preparation others will require as much time as a great many tender plants, and yet it is all plain work.

The requirements for the successful carrying on of such work might be considered under five divisions, i. e.: first, knowledge of the plants; second, preparation and care before the cold weather sets in; third, protection before being brought into heat and proper houses for forcing; fourth, care and management while forcing; and fifth, the ripening of the plants, after the flowering season is over.

First: The knowledge of the plants is best learned by personal observation. It is a very good plan in the spring months to take a trip frequently to some well established nursery or arboretum, and note-book in hand, make a select list of those plants you think would be most desirable for this kind of work; and then, when the proper time comes secure small plants of those noted, well set with flower buds and give them a trial, and if successful the following season they can be tried on a larger scale. Familiarity with the habit of growth of the plant and the time of flowering will come in very useful. A good thing to remember is that it is almost entirely useless to try and force any plant for winter flowering that naturally blooms after the first of July. This is putting the time to the extreme limit, and it is much better to say the middle of June. The later the plant blooms naturally the longer it will take to force it, and it is entirely out of the question to give too long a time to these plants in the greenhouse, where the space is so valuable.

Of course there is a possibility of forcing those plants which bloom later than I have mentioned. Prof. Bailey of Cornell University, told me last March that at that time he had in his greenhouse some flourishing plants of some of our native asters and golden rod, which at this time were some two feet high and very healthy. His manner of treatment was this, some time during the early part of the fall of 1892 the plants were lifted, and as soon as the cold weather set in they were placed in a cold storage house where they remained during the year of 1893, treating them as lily of the valley. Then in January of 1894 they were brought into heat, with the results mentioned. Whether they continued to do well and flowered with success I do not know, but as you see, it certainly is not practical, but shows what can be done if occasion requires it.

Second: The preparation and care of the plants is a most important part of the work, and needs considerable fore-

thought. Sometimes it means two to four years, i. e., when one has to work up the stock of any special class of plants, which can not be obtained from the nursery, and again the nurseryman of to-day grows his stock chiefly for planting out purposes, and seldom gives it the little extra care which it should have to get the best possible forcing results. It might be well for some nurseryman to give special attention to the growing of popular forcing plants, or those that are to be popular. They would do well to try and copy the methods of some of the foreign (mostly German and French) growers. Good healthy young stock to start with, planted in carefully prepared soil, and let grow until proper size and shape and well set with flower buds, is what we want. Transplanting every season helps to keep the roots within limit for potting or boxing purposes. To be sure it would require from three to four years to obtain such results, but it would pay in the end, and when we come to think of it this same pains has to be taken with all our plants of any importance, as Indian azaleas and tender rhododendrons. Very pretty work, as mentioned above, is shown by the forcing shrubs which are imported annually, as lilacs, snowballs, Ghent and mollis azaleas and the like, and it seems reasonable that our own nurseryman could offer to the trade just such plants, if he would only give them the little extra care. I have mentioned this extra pains to be taken when one is looking for the best results, but you can get good results and good returns by selecting the plants right out of the garden, nursery or woods in the fall, care being taken to select sizable flowering plants.

One of the best forcing shrubs is our Mountain Laurel (*Kalmia latifolia*) and usually my plants forced have been dug up in the early fall from their native ground. Generally speaking, I usually turn my attention towards the preparation of those plants I wish to force early in October, or as soon as the tender plants are well cared for and in their winter quarters. If you can commence to pot late in September or early in October a good root growth is usually obtained before it is time to place them in storage place. This is an essential point, as you can then commence to feed with stimulants soon after they are brought into heat. In regard to potting, use a good compost of about equal parts of rolled sod, old manure and sand, with a dressing of bone meal; add leaf mould for the ericaceous plants. Pot firm, as you would in lifting any plant, and use a little draining, regulating the amount according to the time you expect the plant to remain in the pot. After potting the same care should be given as if it were a tender plant, syringing two or three times a day, in fact I should say treat them as you would a chrysanthemum, keeping them in the shade for a day or two and then giving them plenty of light and air with plenty of moisture. They should remain out as late as possible, say away into November or early December; in fact a severe frost seems to do most of them good as long as it don't break the pots.

Andromeda speciosa is an exception. When the plants are newly lifted they should have every possible attention, treating them as you would an Indian azalea or cool loving heaths, never allowing the frost to get at them. In this way you can usually keep their evergreen like foliage on them. This beautiful shrub should be given a good chance and it will be found to be one of the most beautiful

flowering plants for winter decoration. It is one of the plants which is really better for being carried over the summer season in the pot and treated like a cool greenhouse plant. In speaking of carrying over the plants in their pots or tubs after the first winter forcing, I find it is a good practice to do so for one or two years if the time can be spared to keep them well watered and syringed during the summer months.

Azalea mollis (*Rhododendron sinensis*) and the Ghent azaleas are always better the second year of forcing than the first, and again with this manner of treatment they can be brought into a more satisfactory bloom and the flowers last better, both on the plant and when cut. This matter of lasting qualities is very important and it is true of not only the azaleas but of all forced plants that their lasting qualities are far better when they are confined to the pots for any length of time.

Third: Pits and frames for storage of the plants till forcing is an important matter. A good big pit should be made of any convenient length, using common six by three sashes for the front portion of a span roof pit. The back side can be covered with planks which are covered with heavy tarred roofing paper, so as to keep the water from entering the pit. The pit should be sunk from four to five feet into the ground, the wall being made of heavy plank, or better, stone or concrete. This structure should be raised one foot above the surface in back and front and two feet in the ridge, care being taken to have a gravelly bottom, i. e., there should be no chance of the water standing in the bottom of your pit. The above kind of a pit is good for all shrubby or taller growing plants, and with plenty of movable shelves, the amount of plants that can be stored into one of them is simply marvelous.

Frames such as violet frames, only a little deeper, are fine for storing all the herbaceous plants and the like. The larger shrubs in tubs or boxes can be left out of doors as long as there is plenty of protection around the roots. The storing of your pits and frames should be put off as late as possible, usually in the latter part of November or early in December. By that time the wood of the shrubs is well ripened. We usually use these storage places in the fall for carnations, ericas, cinerarias, Indian azaleas, stevia and the like, which are transferred to the houses as soon as the chrysanthemums are past. In storing the pits a system should be practiced, keeping the different kinds in groups by themselves, so you will know just where to place your hand on a plant when needed. Care should be taken to see that all plants are well wet at the roots; this precaution will save extra care in the winter season, it being a rare thing to have to water the bulk of your plants in winter if they are in the proper condition when stored. The pits and frames should be kept open during the winter months, whenever the weather will permit it.

An apartment span or $\frac{3}{4}$ span house would be good for forcing purposes, having one part cool, with a temperature of 40° or 45° Fahr., so that you can retard your plants, and a medium temperature of 50° to 58° in the other apartment. A warm box closed in under the benches, with the hot water pipe running through, is very convenient for rushing lilac, valley and the like; 80° is a good temperature for this hot box. The pits and frames should be examined at intervals, in order to keep up to the field mice and moles

which often play havoc with the plants. It is well to have traps or saucers containing arsenic mixed in meal scattered around in different parts of the pits.

Fourth: Care and management while forcing is the most important of all. When shall we commence to bring the plants into heat? is commonly asked. Generally speaking, any time after the turn of the year, i. e., after January 1. It all depends upon when you want your plants to flower, and of course the earlier the plants are brought into heat the longer it takes to flower them, and usually the poorer are your results. I do not advocate early forcing; on a whole it is poor practice; to be sure there are a few plants which will do fairly well under early forcing, as crab apples, *Andromeda floribunda*, Mayflower (*Epigaea repens*) and Christmas roses, which can be brought into flower Christmas, but this list is small, and usually early forcing is not commendable. The plants when just brought into heat should have a cool place to start, and later more heat given them, but the warmth should be given gradually at first; in this way there is much better substance than when forced too rapidly. If you have no cool house place your smaller plants on the edge of the walks where it is usually cooler than on the bench, care being taken not to leave them too long. Then again this practice saves room. After being brought into the heat the most important suggestion to offer for all the woody plants is frequent syringing in bright weather. This will cause the new growth to commence much more rapidly than if you failed to do so. After the growth begins the general treatment is that given to ordinary cool greenhouse plants.

In regard to the length of time to allow to bring your plants into bloom, it is pretty hard to say just how long they should be in heat, it all depending on what temperature they are grown in, and at what season of the year you try to force the plants. It is worth while to remember that with the advance of the season, when the days begin to lengthen, it is much easier to force; the work is less uncertain, and the results are far more satisfactory.

Fifth: The care and management of the plants after they are through blooming depends entirely on the circumstances. The choicer shrubs, as azaleas, *Andromeda speciosa*, rhododendrons, Scotch brooms, and those that you wish to grow on in pots, for better results for another year, should be fed on and grown as greenhouse plants, putting them out of doors in the spring as soon as the weather will permit. Such plants as you are not particular about, as snowballs, lilac and the like, can be returned to the pit from whence they came, after a short period from the time they passed out of bloom, and with a little care will be in fair condition to plant out in the nursery rows, where they will soon recover and make good plants; many of them being in good condition for the same work the following season. In regard to the herbaceous plants and annuals, they usually find a place in the dump as soon as they pass out of bloom. Of course there are exceptions, hepaticas, phlox, houstonia, cypripedium, heuchera and the like are well worth saving, but get them out into the frames as soon as possible.

[CONCLUDED NEXT WEEK.]

OUR trade directory and reference book for 1894 contains 270 pages of information of real practical value to every one in the trade. Price \$2.00.

New York.

It is pleasing to be able to record that business has been fairly good for the past ten days. Retailers all report an encouraging activity in transient trade, and the wholesalers—well, a wholesaler is easily made happy; a few days of good trade raises his hopes, he forgets in his joy all the tribulations of the past, and he becomes about the future as sanguine to-day as he was downcast yesterday. So the present gratifying spurt has brought a smiling face and a light step to every wholesaler in town. At the 34th street market too a good trade is reported. Stock goes quickly even if prices do advance slowly.

Cool bright weather has had a beneficial effect on the roses, which have improved greatly in quality. Good solid buds with clean fresh foliage and good stems are now coming in from those growers who are attentive in growing and careful in handling and packing their stock. There are many growers though who do not receive for their shipments nearly as much as they might by sorting their stock and observing special care in the handling of the choicer grades. The proportion of first-class blooms in the average rose shipment is mighty small in many cases at best, but to this little percentage of good stock is due a very large percentage of the returns, for the culls are practically dead stock. No retailer will have them in his store, and even the Greeks sneer at them.

Violets are beginning to come in more plentifully, but are pale, small and imperfect as yet, and there is but little outlet for them until they are better in quality. They bring 50 cents per hundred, which is a good price for the kind. Lily of the valley is a little scarce, and the best sells for \$5 per hundred. Carnations are of good quality and selling well at 75 cents to \$2 per hundred, the latter figure being for some extra fine flowers.

On Sunday morning early a stranger arrived at Floral Park and took up his abode with Charlie Allen. Charlie says "the boy is O. K. By this time next year he will be able to disbud carnations." Yes, and make superfine mixtures in the gladiolus bins.

Boston.

The supply of flowers has shortened up considerably. Of white carnations there is a decided scarcity, and prices are tending upwards. White roses also are none too plenty, and everything in that line is quickly sold out. The first chrysanthemums of the season made their appearance on Thursday. They were brought to the market by Elijah Cartwright. The variety was a good white one. The name? Oh, the label got lost.

N. F. McCarthy & Co. have had a number of successful auction sales at which a large quantity of miscellaneous stock has been disposed of. Ed. Hatch's sale of palms and rubbers for W. K. Harris on Saturday, Sept. 29, was a winner. The stock was grand, the bidders were numerous and not afraid to bid, and prices were satisfactory all round, so everybody was happy.

The total proceeds from premiums paid for choice of stalls in the Market amounted to \$725. The annual meeting of stockholders and election of officers will take place on Saturday evening, October 6, at the American House, when a dividend of 10% will be declared.

Bowditch & Co. have opened at their new location, 168 Tremont street. Mr.

W. H. Long, the junior partner in the firm, remains in charge at the old store, which will be kept open for some months yet, while Mr. Bowditch looks after the new establishment.

Recent visitors in town: E. V. Low, England; H. A. Siebrecht, Providence, R. I.; W. A. Stiles, New York; Frank Hamilton, Tarrytown, N. Y.; R. H. Waggoner, New York; Wm. Appleton, Providence, R. I.

Prof. C. S. Sargent has just returned from California, where he has been studying American oaks.

Annual election of the Mass. Horticultural Society on Saturday, Oct. 6.

N. T. Davenport, well known as a florist for many years, died at his home in Milton on September 15 of old age.

Chicago.

Four weeks from to-day the chrysanthemum show will open. So far as can be judged at present the coming exhibition will eclipse all previous efforts. It is most gratifying to note that the interest taken in the show this year is a lively one, and is constantly growing as the season advances. The stock as a rule is looking fine, but how much of it will pass through the critical time of the next few weeks and come out as A1 remains to be seen. It is a notable fact that the new beginner in "mum" growing is the most enthusiastic and is predicting a complete success, while he with the experience of several campaigns in the field, is far more conservative.

The executive committee of the Hort. Society has been holding a number of meetings, at which all details as to management have been arranged. Mr. W. N. Rudd will have charge of the exhibition hall and as everybody knows Mr. R. is a hustler from the word go. It goes without saying that everything will be in shape promptly on time. Arrangements are being made for an ample supply of vases in suitable sizes. These will be ready to be distributed to the exhibitor on Friday, November 2. There will positively be no excuse for unnecessary delay and it may be well to bear in mind that the rules as to time at which exhibits must be in place will be strictly enforced this year. The revised premium list will be ready next week.

The first chrysanthemum blooms have made their appearance. The coming week we may look for some good Mrs. E. G. Hill, which in our section at least, appears to be the earliest one. Mr. W. N. Rudd, of Mt. Greenwood, has a fine batch of them, some 4,000 plants, all in fine condition, from which cutting will begin the first of the coming week. The earliest lot is grown in 5-inch pots, the balance, as well as all other sorts, on benches. The next early sort at this place is Golden Queen, which is showing color; the bloom will be large and fine. Next comes a fine batch of Minnie Wanamaker also showing color. A large list of the new varieties are grown in more or less quantity. Mrs. J. Geo. Iis is looking fine and so are Challenge, Beau Ideal and others. Of the older sorts we note a fine bench of W. N. Rudd, one of Ivory and another of Mrs. Jerome Jones. A new white seedling attracted our attention by its remarkably fine habit and splendid foliage; this may be heard from later.

This establishment has always been noted for extra fine quality of Harrisiiis. The first batch, in 5 and 6-inch pots, is beginning to set buds and is expected to come into bloom by December 1. More or less trouble is experienced from disease

of the bulb; from 15 to 20% are reported as affected.

Of the four rose houses one is filled with Testout; the plants are in splendid condition and are in fine crop at present. The adjoining house of Meteor also looks well and so do the others, one of Brides and one of Kaiserin. The latter was planted rather late but is making fine and vigorous growth, with a good show of buds. "One of the best qualities of this rose," remarks Mr. Rudd, "is that with me at least it throws no blind wood. Every lead comes with a bud."

Mr. Wm. Viberts, for many years with J. T. Anthony, is in charge at this establishment since last spring. Well, "Billy" is showing that he can handle "mums" and roses as well as palms and orchids.

The market this week was steady with local demand moderately good and shipping trade brisk. The rapidly increasing demand from outside points is particularly gratifying to the commission and wholesale men.

In the smaller varieties of roses prices remain unchanged but first-class Beauties have advanced to \$2 per dozen. The advance is not owing to a short supply, in fact the cut at this season of the year was never better, but there is a constantly increasing demand for this rose at all seasons of the year.

Mr. John Thorpe has severed his connection with O. J. Friedman. Uncle John intends to devote his entire time hereafter to landscape gardening.

Mr. Klunder has closed his establishment at Wabash and 22d streets and is now connected with O. J. Friedman.

Messrs. J. T. Anthony and Joseph Curran have entered into partnership under the firm name of Anthony & Curran, and are now open for business at 278 Wabash avenue.

Alfred Hildred, formerly with E. Hobbs, has started in business for himself at 302 31st street.

Mr. and Mrs. H. F. Halle have returned from Europe.

Recent visitors: Albert C. Rott, Bloomington, Ind.; H. A. Bunyard, of Pitcher & Manda.

Washington.

Mr. J. L. Loose of Alexandria, Va., who has for several years carried on very successfully a wholesale florist business, opened a new retail store at 1114 and 1116 F street N. W. on the first of the month.

The entire front is a show window where he had a handsome display of ferns and cut flowers. This fine window, which reaches almost to the floor, gave him an opportunity to make a fine display of his most excellently grown plants. It is one of the largest florist's windows in the city. The store room is large and very elegantly fitted up with a view of showing the decorations usually required in a private reception hall. At one side of the room is a large fireplace and mantel of the very latest design. The latter was decorated in a most artistic manner with ferns, principally adiantums, palms, tuberous begonias and cut roses. On the same side of the room is arranged a wide oak winding stairway leading to a balcony which runs to the far end of the room. This stairway and balcony were richly decorated with fine specimens of *Areca lutescens*, *Pandanus Veitchii*, *ken-tias*, *latanias*, *phoenix* and ferns. These fixtures, while adding much to the appearance of his store, also add much to the space for making a fine display of plants as they can be arranged on the

floor under both the stairway and balcony as well as upon them.

Mr. Loose intends to have these decorations continuously during the social season, changing them once or twice a week. He thinks it will aid customers in describing the character of the decorations they desire; they can then suggest changes here and there which will materially aid Mr. Loose in arriving at just what they want and will also help him in giving at once the approximate cost of such a decoration. This is a novel feature in our flower stores and a very attractive one too.

Mr. Loose has long enjoyed the reputation of growing fine ferns and palms, probably the finest in this section (particularly *Adiantum Farleyense*), and judging from the display in his store he is justly entitled to that reputation. His window extends entirely across the front of the two stores, is very high and also coming down near the floor, giving him an excellent opportunity to make a very effective and attractive display. The walls of the store are finished in a light terra cotta, capable of showing the plants and flowers to their best advantage. The entire interior of the store was fitted up under the supervision of Mr. Loose, who seems not to have forgotten even the smallest detail.

The back part of the store is given up entirely to the wholesale business and is separate and distinct from the retail store in front, having a separate entrance as well as a separate ice box and all necessary accommodations for that branch of the trade, so that his retail customers will not come in contact with his wholesale people.

Clark Bros. are going in strongly for chrysanthemums, especially for single flowered plants. They have one house devoted to this purpose. They are planted out in shallow benches. They have another lot of several hundred from which they are going to grow into stems carrying three flowers each; they are all strong healthy plants.

They are not growing as much *Asparagus plumosus* this season as last. They have been carrying the largest stock of this plant in the District, and probably do yet; they are loud in its praise.

Their roses, which are principally La France, are looking unusually fine, both their old and new plants. Their house of Woottons, which are grown in solid beds carried over for two years, are looking remarkably well and have been most satisfactory. They feed them freely with liquid manures. Their Beauties, which are two years old, are looking very promising. Their carnations are extra fine though limited as to quantity.

They have a fine lot of the new French cannas. They say the demand for them is growing and that next season they will be very popular; they are making preparations for a good stock of the best varieties.

Trade continues dull, though there is a slight change for the better; the past ten days marked an improvement on what it has been during the entire summer.

C. LESLIE REYNOLDS.

St. Louis.

The prevailing temperature during the past week indicates the approach of the winter season, firing has become almost a necessity with those who are apprehensive of sudden changes in temperature and careful of the stock grown. The dry spell which was so pronounced during the summer months has not as yet finally

broken away; several heavy showers during the first part of September alleviated it to some extent, but since then it has again assumed sway.

Trade, either as a result of the cooler weather or the return of the summer tourists, is improving steadily, the increase having been noticed during the past two weeks. It is not confined to city trade either; shipping orders have been received from several points out of the state and as far as can be seen at present the prospects are for a very favorable season. Stock at many of the places is in fine condition, and the quality of the stock cut will be fully as good as the average.

The roses at the C. Young Sons & Co. are in fine shape and will be heard from at the "Annual Flower Show." Kaiserin and Testout, of which they have a hundred foot bench of each are looking especially strong. Their Perles, however, are the best stock on the place, being strong and healthy, with the top a mass of red shoots. They have been making some improvements during the summer having added a 100 foot "lean-to" on the north side of a rose house, replaced the wooden tank in the water tower with an iron one, erected a new boiler stack, and piped the rose houses for vaporizing extract. Numerous other improvements have been made in smaller things in keeping with the above. The improvements do not stop when it comes to plant growing either, as they have at present writing a batch of cyclamen that would be hard to equal anywhere in the country; nothing noted in and around New York after the convention could touch them.

Owing to their chrysanthemum stock having been badly frozen last Easter they were unable to work up as many as usual and after spring sales were over, there was very little left for planting, and it was in poor shape, as a result they are not up to the usual average. The carnations are all planted and show the effects of the trying season, being small, in fact what usually fills two houses was comfortably filled in one.

At Mr. Dunford's, on the Colorado road, the roses are doing finely. This being his first season in growing for this market all are interested in the outcome. Your scribe is going to visit him shortly and try to learn the formula used in composting his soil, as it has had a most marked effect on the growth of Perles, the present supposition being that it is such a terrible compound that they are growing to get away from it.

A special meeting was called to discuss the advisability of doing away with the guarantee fund in connection with the "Flower Show." It was found by the committee having the matter in hand that there was a disposition on the part of the usual guarantors to look upon the proceeding as useless as there has never been as yet any disposition or necessity to call on the fund, and in view of the fact that the chances of a successful show are so much greater this season than in preceding years it appeared to them unnecessary to sign. A motion was made and carried to do away with the guarantee fund, a clause being inserted in the rules governing the show, stating that in case of a deficit the prizes offered by the club will be scaled "pro rata" to make it good. When it is understood that the club treasury is behind the show, and that the shows so far have been self sustaining the probability of scaling anything is rather remote.

Mr. E. H. Michel, who has had a severe attack of sickness during the summer, is

about town as lively and as full of fight as ever. He complains of being a trifle weak at times however.

Mr. E. W. Guy, of Belleville, recently lost his youngest child, and has the sympathy of many friends. R. F. T.

Toronto.

Chrysanthemum show matters are progressing satisfactorily. The executive committee met last week and attached prizes to all the sections. The secretary hopes to have the finally final prize list printed and published the end of this week or beginning of next if the government can make up its mind when to fix Thanksgiving day. I hear that already there are some carpers and criticizers, even before the list is published. It really is most astonishing what a faculty some men have for seeing defects after everything possible has been done to get things right and after every chance has been given them to express their views before matters are settled. I don't believe that these men actually wish to hurt the show, but their talk certainly does not help it. Why should they not say everything nice they can about the show? It would be so much pleasanter all round and they would have the satisfaction of having done some good to their neighbor. Those who have the real work of running the show need all the encouragement possible, they are always glad to receive and consider suggestions and do their best to please all hands. Now, let us show other cities what we can do, "give a long pull, a strong pull and a pull *altogether*."

"No thank you, no water in mine—Good health." Yes, the list has been arranged with the view of making a good show and not to please any one section of the trade. The public wants a good show, thousands don't mind spending a quarter to see a good show, we want to give the public a good show and get the quarters; Q. E. D.

Trade is still very dull though perhaps a trifle better. There were slight frosts two nights last week but only enough to touch the coleus in exposed situations.

A letter has been received by the secretary of the G. and F. Association from the Pennsylvania Horticultural Society concerning a national chrysanthemum trophy to be given to a vase of 100 blooms. I don't see why Toronto should not go in for this. The matter will be laid before the executive committee at an early date. Why should not other cities have a similar competition? It would be decidedly a drawing card.

Later—I have just seen over the signature of the Premier of the Dominion that Thanksgiving day will be on the 22nd of November, therefore the Toronto Show will be from the 20th to 23rd. E.

Buffalo.

Since the long dry spell broke up we have had frequent rains, but altogether beautiful weather, with one notable exception; on the morning of September 26 Buffalo was nipped by a frost just hard enough to kill coleus, but hurt very little besides. Twenty-five miles back from the lake it was a killer; 4 and 5 degrees of frost in many places. It has shortened up the supply of outside stuff greatly; gladiolus, helianthus and about everything else outside is gone.

W. J. Palmer & Son are sending in a grand lot of Meteor roses; they are also coming in from other sources, and it seems again to be the favorite flower. Brides and Mermets are not yet of A1 quality.

There is just at present none too many good carnations, but that cannot last long, as there is for this locality an immense area planted. Daybreak will be the most plentiful. In Corfu alone there are 6 or 7 large houses planted entirely with this variety.

Your correspondent made a rather extensive exhibit at the Genesee County Fair last week held in Batavia. It was truly a county fair. "Cold molasses" won the "hoss trot," and a young man and woman having the appearance of feeling anything but cold were married in public in front of the grand stand, for which they were rewarded (besides enjoying the admiring gaze of fifteen thousand people) with a handsome outfit for their new home. Last year the floral department of this fair almost needed a microscope to find where it existed, while this year, through a better and more liberal distribution of prizes, it assumed very respectable proportions. It was pleasing to see both Mr. Gus Noack and Mr. Munich, the local florists, make good exhibits. Mr. J. F. Cowell did the judging, and Mr. Mepsted went along to take care of W. S.

While in Genesee Co. I visited the houses of Messrs. Harmon & Burr of Darien. They have a fine house of roses doing well, a big house of carnations and 3 narrow houses of violets. This firm last year sent to town the finest M. Louise in the market, so they increased their violet growing capacity by two more well built equal span houses each 11x85. They planted the violets in the house early in August, and are now just putting in the glass, and they think they would have done better to have had the glass on a month before. The plants, however, are looking fine.

There are a few weddings occurring, making a demand for a more or less elaborate decoration, but nothing of any great extent. In two weeks such events can come along as fast as they choose, for we have the Queen of Autumn in quantity and quality as she has never been seen here before. W. S.

Philadelphia.

Have you any good Beauties? is now the first question for the hustler as he planks his pile of boxes down on one of the seats in front of the counter. All other roses are to be had in quantity, although there appears to be no overstock, the demand about keeping pace with the supply. The best teas command from \$3 to \$4 per hundred and the smaller class 2 to 3. Beauties have gone up a notch and are now 10 to 12. There seems to be more Testouts about this season; the color and size of the flower is all right but the stems are very weak. Carnations are getting into form and bring from 75 to 1.00. There are some very good Daybreaks to be seen; this variety promises to be plenty the coming season.

The "mums" are eagerly watched for, but up to date (October 3) none have been seen. Connor of Lansdowne is reported to have some Bergmann about ready. The general stock of chrysanthemums is reported to be very fine; as the varieties are being selected with greater care each season and more attention given to their culture the crop should be profitable to all who handle them. Messrs. Harris, Craig, Anderson, Evans, Lonsdale will all have large stock of this flower.

Gladiolus have been sold in large quantities recently at \$10 per thousand, tube roses are also plenty at from 2 to 3 per 100 stalks.

The Chadborn Automatic ventilator is being put in by a number of the trade about here the past week or two and as far as tried seems to work perfectly. Mr. Harris is particularly well pleased with four regulators that have been put in for him and says it works like a charm and is apparently a perfect machine. Mr. Valentine, representing the company here, says they will put it in any well built greenhouse on trial and let the apparatus speak for itself.

The meeting of the club Tuesday last was well attended, and considerable interest taken in the approaching chrysanthemum show at the Academy of Music. This promises to be the grandest exhibition the society has yet given. While the display of plants will not be so large, the collection of cut blooms will far exceed anything before exhibited. In addition to the large entries from this city replies have been received from a number of clubs and horticultural societies who will enter for the \$100 silver vase offered for the best collection of one hundred blooms to be arranged in one large vase. This feature will make an exhibition of itself alone. The Academy is a beautiful building and the society expects to spend a large sum in adding to its beauty by elaborate decoration both of plants and flowers. It is thought that parts of this work will be given to different firms, who will furnish sketches and bids for the same. Formerly the society bought the material and the decorations were arranged by volunteers from the city stores. A guarantee fund to which the Florists' Club agreed to subscribe \$100 was started and before long the sum of \$500 was pledged to help the society out in case they were unable to stand the expense.

This being the month in which the election of officers for the ensuing year is held the following gentlemen were elected: President, Edwin Lonsdale; Vice-President, Robert Kift; Secretary, H. F. Michell; Treasurer, Thos. Cartledge.

Mr. J. Welsh Young read a very interesting paper on "How to manage 20,000 feet of glass." This essay had been carefully prepared, and showed the author to be fully alive to the requirements of the modern methods of managing greenhouses.

Christian Koehler and Julius Bruce were elected to membership.

Mr. Harris reports having had a good sale in Boston last Saturday. K.

Cleveland.

Business is picking up nicely, and the prospects are much brighter than the fall of 1893. This week nearly all the downtown florists had large orders for decorating the different headquarters of the Knights Templars, who held their state convocation here. There were some largest pieces, and buttonhole bouquets were used by the thousands.

For the funeral of one of our firemen lately one of our florists had an order for a call box with the words "Last call box 9" on the face of it. This is not quite so bad as the case we have all read about where a friend of a deceased fire laddie sent a pillow with the inscription "Gone to his last fire." L. F. D.

Cincinnati.

Weddings, funerals and receptions are taking considerable of the florists' time and flowers. During the past week trade has been quite brisk, and the Jewish New Years on Monday used up all the Ameri-

can Beauties and good carnations. Stock is getting much better all around.

Mrs. J. W. Halliday of Paris, Ky., and J. J. Lampert and wife of Xenia, O., were callers this week. G.

Greenhouse Building.

Ogden Golet, Newport, a large range of houses. E. J. Mathews, Valley Forge, Pa., a range of houses. G. H. Morris, Chestnut Hill, Phila., a range of palm and rose houses. E. A. Schmidt, Radnor, Pa., palm and greenhouses. Mrs. S. P. Adams, Newton, N. J., a circular conservatory attached to dwelling; and Mr. W. H. Merriam, Newton, N. J., a handsome palm house. All the above are being built by Hitchings & Co.

J. D. Schemerhorn, Lenox, Mass, an iron frame greenhouse 100x20. Contract awarded to Thos. W. Weathered's Sons.

A. H. Moore, Colmar, Pa., group of houses with palm house in center 200x80.

J. H. Crankshaw, Norristown, Pa., conservatory.

Alex. Turnbull, Carbondale, Pa.; Henry Fountain, Middletown, Conn.; and A. A. Welden, Berlin, Conn., commercial greenhouses.

H. Hageman, Mamaroneck, N. Y., palm, rose and grape houses. E. J. Zimm, Scranton, Pa., house 48x16. J. Hassinger, Newark, N. J., three commercial houses, each 110 feet long. White House, Washington, D. C., conservatory 69x20. Tampa Bay Hotel, Fla., conservatory. Mr. Ryerson, Chicago, range of houses 150 feet long. Thos. W. Weathered's Sons are contractors for all the above.

Louis Dupuy, Whitestone, N. Y., house 100 feet long. Hitchings builder.

Jos. Mathews, Great Neck, N. Y., two houses, each 100x16.

J. H. Dunlop, Toronto, Ont., four large houses, two being built with short slope to south.

Bonn & Dressel, Weehawken, N. J., eight houses, each 78 feet long. Heating and ventilating by Weathered.

Building Around a Tank.

Replying to "A Subscriber" as to the best way to build a cheap house around his tank 25 feet high and 12 feet in diameter, the same to be frost proof, there are several ways of doing it, but one of the best I have ever seen was built by setting posts in the ground about four feet deep below the surface allowing the same to stand up about eight or nine inches above the ground level, sawing the posts all off level at this point. On these posts place hemlock sills 4x6 on edge, the corners halved together and well nailed with long nails. From this sill build up with 2x4 hemlock studding, doubling two together for the corners and placing the studding at 16 inch centers; this studding can be 13 feet long, the tops of which should be level. On these a plate 4x4 or two pieces 2x4 well nailed together is placed and the studding nailed to same. This, in "Subscriber's" case, can be braced to the top of the timbers carrying the tank. After putting on the plate place another tier of studding 13 feet long, nailing them directly over the bottom ones, carrying the corner ones up and putting a top plate on them similar to center plate. This will make the frame work about 27 feet high, the roof can be run to a point in the center, give it slope enough to carry water off freely, allowing 15 or 16 inch eaves to overhang. This being done start at the bottom and nail on diagonally hemlock rabbetted siding—that made 7 or 8 inches wide, which can be procured

at any large lumber yard. This will effectually brace the whole building, if two eight-penny nails are used at each stud in each board. When this is completed, including the roof, cover the whole with good stout tar paper, three or four ply, giving at least three inch lap to each course, then start at the bottom even with the lower edge of sill and put on novelty siding, nailing these with eight-penny wire nails, two nails at each stud in each board, and be sure to get each rabbit tight down to the former board. At the top under the eaves the boards should be notched out to fit close up to the boards of the roof and the whole should be jointed as closely as possible; the roof can be either shingle or tin as preferred. When completed the whole should be painted to preserve it from shrinking, etc.

The stub posts for such a building should be about three feet apart and the space between the ground level and sill can be filled in with loose stones packed closely together and then a bank of soil packed well round level with or a little above the bottom of the boards and slope from the same for fifteen or sixteen inches; this carries all moisture away from the building. If there is any danger of rotting the bottom boards the soil can be drawn away from them in spring and replaced again before winter.

To cover a tank twelve feet in diameter, allowing room to get at the tank from inside at all times, the building should be sixteen feet square outside measurement when complete; this admits a ladder in one corner and just enough room to get around the tank. Such a building will keep all ordinary frost out, but the pipes leading to and from the tank should have a covering of hair felt to make them absolutely safe, though I have seen them go through very severe winters in such a building without ever freezing up. Still for the very small cost of wrapping the pipe I think it best to be sure.

This kind of a building should have a door on the south side, also at least two windows on the south side to admit light enough for scanning the interior at all times and to admit air in summer.

JOHN N. MAY.

Glazing.

A great deal of trouble is experienced in some greenhouses during the summer months by the burning of the plants, caused by defective glass in the roof. The primary cause of this is that in glazing the house perhaps late in the fall the glass is taken right from the boxes and laid on with a rush, the only point kept in view being to get the house covered as quickly as possible. Where first quality glass is used this may be all right, though even then a defective light or two will get in. But where second quality glass is used greater care should be exercised. Previous to using, the glass should all be carefully sorted over, each light examined separately, the clear lights placed in one box, the blistered or wavy in another. There will always be sufficient clear glass to glaze the southern side of the roof, and it is through that the burning is done. The blistered and wavy glass can be used on the north side, the ends, and on the propagating house, as that is usually more or less shaded. To some florists, especially young beginners, this may seem unnecessary work, but if they do it they will avoid a great deal of yearly trouble in the future.

For those whose plants burn from blistered or wavy glass in the roof the only

permanent remedy is to go through the house on the inside and mark each defective light on the south side with a daub of whitewash, then have them removed and their places filled with clear glass. If this is done thoroughly they will not have to shade their houses in the summer, when it is an injury to roses, chrysanthemums, etc., or whitewash the defective lights on the inside, thereby making their roof look like a patchwork.

J. P. RING.

Cannas at Cornell.

From the remarks on cannas in your issue of September 22, page 176, one would be led to infer that the variety *Alphonse Bouvier* is in every way superior to *Charles Henderson*. Judging from observations made here, however, this is not the case. The former is a very tall variety, while *Charles Henderson* is of dwarf, compact habit, and could therefore be made to do duty where the other would be much out of place. The two varieties bloom with equal freedom; and although late to flower in Chicago, *Charles Henderson* has been in full bloom here for a month past. There is little to choose between the varieties in the matter of floral colors. Each variety has its own distinct place, and no good garden can well afford to be without representations of both.

Ithaca, N. Y.

M. BARKER.

Grasshoppers Eating Canna Leaves.

I have both large and dwarf cannas eaten very much. I thought the damage was done by worms or caterpillars, as per notes that have appeared in the *FLORIST*, but on watching early in the morning I found small grasshoppers at work eating their fill. They seem to like best plants that are in or near shady places. The only remedy I know of is to catch them and pull off their heads.

Highland Park, Md. F. THURLEY.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant ads. not admitted under this head.

SITUATION WANTED—December 1st, by full round man. Address J. J. care American Florist.

SITUATION WANTED—In or near Chicago. Age 32; married. Good wages expected. Address EXPERIENCE, care American Florist.

SITUATION WANTED—By young man, age 28, 12 years' experience in seeds, etc. Address F. BRADLEY, 15 Greenwich Ave., New York City.

SITUATION WANTED—As gardener and farm manager; thoroughly experienced; English; married; age 36. Address D, care Am. Florist.

SITUATION WANTED—As general grower and propagator; age 28; 12 years' experience. First-class references. G. P., care American Florist.

SITUATION WANTED—By German as florist and general greenhouse man; has 10 years' experience, and can give first-class references. Address B, care American Florist, Chicago.

SITUATION WANTED—As foreman in a good commercial place; 20 years' practical experience, propagating, growing cut flowers and decorative plants. Address Box 103, Tom's River, N. J.

SITUATION WANTED—As orchid and plant grower by Englishman, 12 years' good practical experience; private or commercial; age 28, highest testimonials. Address C. H. Short Hills, New Jersey.

SITUATION WANTED—By experienced gardener. The execution of landscape plans, laying out and general planting, etc. Wages moderate. References given. Address F. N. H., 56 Tyler St., Boston, Mass.

SITUATION WANTED—As working foreman by successful grower of cut flowers and general stock. Life experience; German, married, age 34. First class references. GROWER, 20 C. Delaware Place, Chicago.

SITUATION WANTED—As manager or foreman in a practical grower of roses, carnations, violets, decorative and bedding plants, the forcing of all kinds of bulbs. A life experience. Good references. FLORIST, 283 E. 43rd St., Chicago.

SITUATION WANTED—By young man with 8 years' experience in growing cut flowers and a general line of plants. First-class designer and decorator. Best of references. Address C. B. KNICKMAN, Box 23, Middle Village, L. I., N. Y.

SITUATION WANTED—The advertiser desires a position with a reliable seedsmen. Has had 12 years' experience. Thoroughly understands the mail trade in all its details. Address RAY, Box 16, Philadelphia, Pa.

SITUATION WANTED—After Nov. 1st by first-class all round seedsmen or large experience, with knowledge of plants. Could take full charge. Best references. Total abstainer. Address SEEDSMAN, care American Florist.

SITUATION WANTED—By Englishman, aged 29 years, in a private establishment, as head gardener. First-class orchid grower. Good references from leading places in England; 14 years' experience in all branches. Address ORCHID, care Am. Florist.

SITUATION WANTED—After Oct. 15th, as foreman on commercial place of 25,000 or more feet of glass, where roses are made a specialty. References: N. F. McCarthy, 1 Music Hall Place, Boston; or A. Montgomery, care E. M. Wood & Co., Natick, Mass. M, care American Florist, Chicago.

WANTED—A young German florist for general greenhouse work. State wages. Address ED. KIRCHNER, Wltona, Minn.

WANTED—Tuberose growers and dealers please send price lists to address J. P., Wayland St., San Francisco, Cal.

WANTED—Florist, single, sober, industrious, on carnations, mums, violets, and magnonette. L. M. COTTLE, 622 Ridgeland Ave., Oak Park, Ill.

WANTED—A young man who is not afraid to work; one who has had some experience in growing roses and violets. Address JOHN E. CAREY, Box 838, Mt. Clemens, Mich.

WANTED—A thoroughly competent florist and a successful grower of roses and carnations. Address with references of character and experience, stating wages. JOHN DOBBIE, Niagara Falls, Ont.

WANTED—Working foreman who can grow first-class plants for retail trade; one of good habits and capable of taking charge—none other need apply. State experience, references and wages expected. KNICKMAN BROS., Box 23, Middle Village, L. I., N. Y.

FOR SALE CHEAP—Large second-hand florist's Ice Box, value about \$75. VAUGHAN'S SEED STORE, 88 State Street, Chicago.

FOR SALE—A Weathered hot water boiler No. 5 in good condition, only \$50.00. I. L. PILLSBURY, Galesburg, Ill.

FOR SALE CHEAP—Large, new hard wood and glass florist's Refrigerator. Used at World's Fair. Price reduced to \$175. VAUGHAN'S SEED STORE, 146 & 148 West Washington St., Chicago.

FOR SALE OR RENT—Greenhouse, either 15,000 or 30,000 square feet of glass, stocked with best variety of roses. Or will take partner with \$1,000 capital. Address A. T. JACKSON, station X, Chicago.

FOR LEASE—Splendid opportunity for establishing paying floral business. Seven acres Atlantic City Ward, Norfolk, greenhouse 23x30, hot water heater, hotbeds, choice fruit trees. For lease for 3 years from October 1. Proper party with capital might make other arrangements. Address WILLIAM LAMB, Norfolk, Va.

FOR SALE OR LEASE—Florist business in one of the finest cities and health resorts in Colorado; 5 greenhouses, each 75 by 20 feet, also dwell'g; all heated with steam, and well stocked with roses carnations mums and violets. Trade wholesale and retail. Will sell stock and give long lease on the place, or will sell the whole place on easy terms. Reason for selling poor health. Address VICTOR JOHNSON, box 884, Colorado Springs, Colo.

FOR SALE.

Extensive greenhouses, finest stock for cut flowers and decorations, having monopoly in city of 40,000. "Best city in the West." Failing health obliges owner to retire. Attractive terms. Address K, care American Florist.

Reference: J. C. Vaughan, Chicago.

TO WHOM IT MAY CONCERN;

The firm of UHLMANN & HAISCH, of Memphis, Tenn., has been dissolved by mutual consent, and is succeeded by E. UHLMANN, who will carry on the business of florist in all its branches, and who will endeavor to maintain the enviable reputation gained by the late firm for high artistic work, and for elegance and promptness in the execution of all orders.

FLORAL DESIGNS

The Cut Flower Worker's Friend. Fine book of 160 pages. Send \$3.50 for it, to J. HORACE McFARLAND, Harrisburg, Pa.

CARNATIONS AND VIOLETS.
Marie Louise, strong, healthy, large clumps; \$6.00 per 100; \$55.00 per 1000.
The standard varieties of CARNATIONS, \$6.00 per 100; \$40.00 per 1000.
LOUIS A. GUILLAUME, East Onondaga, N. Y.

THE AMERICAN FLORIST

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Advertisements, 10 Cents a Line, Agate;
Inch, \$1.40; Column, \$14.00.
Cash with Order.

No Special Position Guaranteed.

Discounts, 6 times, 5 per cent; 13 times, 10 per cent;
26 times, 20 per cent; 52 times, 30 per cent.
No reduction made for large space.The Advertising Department of the AMERICAN
FLORIST is for Florists, Seedsmen, and dealers in
wares pertaining to those lines ONLY. Please to
remember it.

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

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

Address THE AMERICAN FLORIST CO., Chicago.

Coming Exhibitions.

WAYNE, PA., Oct. 30-31. Fall exhibition Wayne
Hort. Society. John G. Gardner, Supt., Villa
Nova, Pa.SAN FRANCISCO, Nov. 1-3. Chrysanthemum
show California State Floral Society. Mrs.
T. L. Walker, Sec'y, 2549 Piedmont Ave., Oak-
land, Cal.CHICAGO, Nov. 3-11. Chrysanthemum show Hort.
Society of Chicago. W. C. Egan, Sec'y, 620
Dearborn Ave.BALTIMORE, Nov. 5-10. Chrysanthemum show
Gardeners' Club of Baltimore. Wm. Feast,
Sec'y, 228 N. Charles St.NEWPORT, R. I., Nov. 6-8. Chrysanthemum show
Newport Hort. Society. Alex MacLellan,
Sec'y, Ruggles Ave.BOSTON, Nov. 6-9. Chrysanthemum show Mass.
Hort. Society. Robt. Manning, Sec'y, Horti-
cultural Hall.PITTSFIELD, MASS., Nov. 6-9. Chrysanthemum
show Berkshire County Gardeners' and Flor-
ists' Club. W. M. Edwards, Sec'y, 103
Howard St., Pittsfield.ST. LOUIS, MO., Nov. 6-9. Chrysanthemum show
St. Louis Florists' Club. E. Schray, Sec'y,
4101 Pennsylvania Ave.INDIANAPOLIS, IND., Nov. 6-10. Chrysanthemum
show Society of Indiana Florists. W. G. Ber-
termann, Sec'y, 37 Massachusetts Ave.PHILADELPHIA, PA., Nov. 6-10. Chrysanthemum
show Pennsylvania Hort. Society. D. D. L.
Farson, Sec'y, Horticultural Hall, Broad St.LOUISVILLE, KY., Nov. 6-10. Chrysanthemum
show Louisville Florists. H. Nanz, Sec'y, 582
Fourth Ave.FREDERICK CITY, MD., Nov. 7-9. Chrysanthemum
show Frederick County Floricultural
Society. C. E. Kemp, Sec'y.DENVER, COLO., Nov. 7-10. Chrysanthemum show
Denver Florists' Club. Adam Kohankie, Sec'y,
L.B. 375, So. Denver, Colo.PROVIDENCE, R. I., Nov. 8-10. Chrysanthemum
show Rhode Island Hort. Society. C. W.
Smith, Sec'y, 61 Westminster St.MONTREAL, Nov. 12-14. Chrysanthemum show
Montreal Gardeners' and Florists' Club. Fred
Bennett, Sec'y, 62 Aylmer St.WORCESTER, MASS., Nov. 13-15. Chrysanthemum
show Worcester County Hort. Society. Edw.
W. Lincoln, Sec'y.SPRINGFIELD, MASS., Nov. 13-15. Chrysanthemum
show Hampden County Hort. Society. W. F.
Gale, Sec'y, 23 John St.MILWAUKEE, WIS., Nov. 13-16. Chrysanthemum
show Milwaukee Florists' Club. A. Klokner,
Sec'y, 219 Grand Ave.MOBILE, ALA., Nov. 15-17. Chrysanthemum show
Mobile Chrysanthemum Club. Miss Mollie
Irwin, Sec'y.TORONTO, ONT., Nov. 20-23. Chrysanthemum show
Toronto Gardeners' and Florists' Ass'n. A. H.
Ewing, Sec'y, 85 Carlton St.HAMILTON, ONT., Nov. —. Chrysanthemum
show Hamilton Agric. Society. Walter H.
Bruce, Sec'y.[Secretaries will confer a favor by supplying
dates as soon as decided upon. We shall be glad
to know of any further shows decided upon and
not included in our list, even if exact date is not
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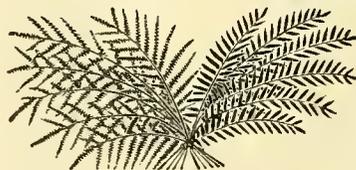
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Asters	.50@1.00
Valley	3.00@4.00
Tuberose	.50@1.00
Stephanotis	1.00
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Smlax	12.00@15.00
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Roses, small	2.00
" large tens	3.00@4.00
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Carnations	.75@1.00
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Gladious, per 100 stalks	\$1.00
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Violets (single), 100 bunches	\$3.00
Cattleyas	35.00@40.00
Sweet peas	.25@.40
Adiantum	.75@1.00

CHICAGO, Oct. 4.

Roses, La France. Meteor	3.00@4.00
" Beauty	8.00@15.00
" Kaiserln	3.00@4.00
" General assortment, per 1000	\$.50@1.00
Carnations, long	.25@.40
" fancies	1.50@2.00
Auratum lilies	6.00@8.00
Asters	5.00@5.00
Sweet Peas	.10@.30

ST. LOUIS, Oct. 2.

Roses, Perle, Wootton	2.00@3.00
" Bride, Mermet, Albany, La France	3.00@4.00
" Kaiserln	4.00@5.00
" Bridesmaid, Meteors	3.00@4.00
" Beauty	5.00@21.00
Smlax	15.00@18.00
Violets, single, per 100	.25@1.00
Carnations, long	.50
Ferns, fancy, per 1000	\$1.75

CINCINNATI, Oct. 2.

Roses, Perle	3.00
" Kaiserln, Mermet	4.00
" Bride, Bridesmaid	4.00
" La France, Meteor	4.00
" Wootton	15.00
" Beauty, Belle	.50@1.00
Carnations	.50
Tuberose	.50
Valley	4.00
Smlax	15.00
Adiantum	1.00

BUFFALO, Oct. 3.

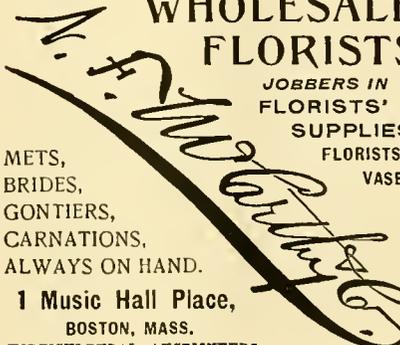
Roses, Beauties	10.00@15.00
" Mermet, Bride, Kaiserln	4.00@6.00
" Meteors	3.00@5.00
" Meteor	4.00@6.00
Carnations, long	1.00@1.25
" short	.50@.75
Valley	4.00
Dahlias	1.50
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Smlax	10.00@20.00
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SUNFLOWER seed is cleaning up lighter than last season.

IT IS HARD to tell about potatoes, all good ones are ripening late.

THE VINE SEED stocks carried over from last year fill out this seasons contracts.

A NUMBER of the scarce radishes of last year will not be much more plenty this season.

TROUBLE is reported in settling accounts with French houses who have made no deliveries or short deliveries on bulb orders.

THE FOREIGN seed travelers seem very much at sea as to what they really can deliver, and are apparently unable to promise definite quantities of but few if any stocks.

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LYNN, MASS.—The Houghton Horticultural Society's 19th annual exhibition. An unusually fine display of fruits and garden and wild flowers at Odd Fellows Hall. September 25-26-27.

HARTFORD, CONN.—Hartford County Horticultural Society's September show, September 19-20, at Putnam Phalanx Armory. The largest and most interesting fall exhibition that the society has made since its organization.

PROVIDENCE, R. I.—The Rhode Island Horticultural Society's annual exhibition of asters and dahlias, September 14-15.

FREDONIA, N. Y.—Fruit and flower show of the Horticultural Society of Chautauqua County, September 27-28.

THE BALTIMORE chrysanthemum show will be held November 5 to 10 instead of as previously announced in our list of coming exhibitions. Mr. Wm. Feast, 228 N. Charles street, is secretary of the Baltimore club.

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2. A separate list of firms that issue catalogues, the space devoted to each branch of the business in each catalogue being also given.
3. A list of the names and addresses of superintendents of leading parks in the U. S. and Canada.
4. A list of the principal cemeteries of America at which the arts of the landscape gardener and florist are used in beautifying the grounds.
5. A complete, alphabetically arranged list of Roses in commerce in America, with class, habit of growth, date of introduction, name of introducer, and brief, accurate descriptions of the flower of each. Synonyms are also plainly given.
6. A complete, alphabetically arranged list of Chrysanthemums in commerce in America, with class, and brief, accurate description of each. Synonyms are noted and varieties that are very popular with American growers are designated by a star, and this year's introductions by a dagger.
7. A complete, alphabetically arranged list of the Carnations in commerce in America, with name of introducer, date of introduction and brief, accurate description of each.
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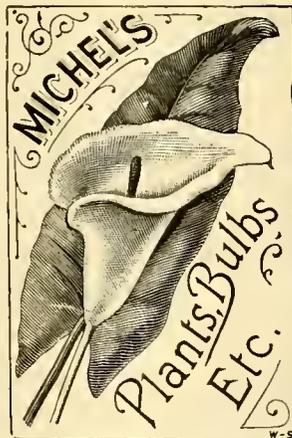
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5000 Field-Grown Plants left, the finest I ever grew; free from all disease; packed in first-class shape.
GRACE WILDER, ORANGE BLOSSOM, PORTIA, ANNA WEBB, TIDAL WAVE, GOLDEN GATE, FRED. CREIGHTON, at \$5 00 per 100.

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Also an extra fine strain of **PANSIES**—plants. This strain has been carefully selected from a number of the choicest strains. It is A No. 1. Plants for flowering this winter. \$1.00 per 100; \$8.00 per 1000. Small plants for spring trade, \$5.00 per 1000.

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CARNATIONS★PANSIES

Grace Wilder, Lizzie McGowan, Portia, Tidal Wave, Orange Blossom, Golden Gate, \$5 per 100. Daybreak, \$5 per 100. Hinze's White, \$5 per 100. Marie Louise Violets, \$5 per 100. The above all extra fine field grown stock, perfectly healthy.

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The Jennings Strain of large flowering and fancy pansies ready Oct. 15th and on to May 1st.

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Price free by mail 60 cts. per 100; by express 1000, \$5.00; 5000, \$20; 10000, \$35. All colors mixed. Pansy seed, finest mixed, 2500 seed \$1. "yellow black eye, 2500 seed \$1.

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UNCLE JOHN . . . \$12.50 per 100
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TERMS: Cash with order.

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MCGOWAN, MRS. FISHER, WILDER, PORTIA and AURORA. \$5.00 per 100.
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2000 Lizzie McGowan, 1000 Portia; 1000 Hinze's White.
All strong field grown plants, \$5.00 per 100. Cash with order, or C. O. D.
JAMES CHALK, Norristown Pa.

Saratoga, N. Y.

Saratoga has had a "Carnival of flowers," and the people are so pleased with it that it will undoubtedly be repeated annually in the future. The procession of decorated vehicles in the parade was larger than the wildest enthusiast had anticipated, and the decorations were lavishly elaborate. An enormous quantity of flowers was used, mainly outdoor stuff, such as golden rod, gladiolus, hydrangeas, asters, sun flowers, etc., though in the floats designs of roses and carnations were seen. One very effective decoration was of asparagus and mountain ash berries. Another was of pine branches, upon which were fastened in great profusion bunches of hydrangeas.

One of the floats carried a representation of the High Rock spring as it appeared a century and a half ago; another was a floral boat manned by ten boys; still another represented a Pompeian garden; a Roman chariot carried Ceres with her sheaves, Pomona with her fruits, Flora with her blooms, Æsculapius with his herbs, Diana with her stag and Pan with his pipes, and was drawn by four oxen; one that received many rounds of applause represented a fairy skiff drawn through a pond filled with cat-tails and lily pads by a great green dragon fly, a little girl sitting between the wings of the fly, and two more in the boat as water sprites.

Davenport, Iowa.

The Scott Co. Fair held here September 10 to 14 was a very successful one, and the floral display far exceeded that of any previous one, receiving much notice and favorable comments from the press. The center of Fine Arts hall was devoted to the display of palms, ferns and blooming plants, at either end of which were arranged cut flowers, consisting principally of roses and carnations.

F. L. Bills received first premiums for cut roses, carnations, display of plants in bloom, display of foliage plants, best exhibition plant, funeral design, basket of flowers and table decoration. J. T. Temple was first for display of cannas. B.

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ADIANTUM CUNEATUM. Fine young stock, from 2½-inch pots, \$5.00 per 100; \$45.00 per 1000.

Field-grown Carnations—SOLD OUT.

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Giant Double for winter bloom. A few hundred strong plants in 3-inch pots, at \$4.00 per 100.

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Primula Obconica.

Fine, 2-in. pot plants, \$3.00 per 100
" 3½-in. " 5.00 "
Seed, crop of 1894, 50c. per 1000.

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1000 strong clumps, field-grown, free from disease, for cash with order, \$5 per 100; \$40 per 1000.

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NEW GIANT PRIZE PANSY, finest strain in the market. 1 oz. \$5.00.

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EXTRA FINE STRAIN.

75 cents per hundred; \$5.00 per thousand.

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If with good care they prove better than you ever grew, or at least very satisfactory, then you will send me the other \$2.50 April 15, '95. Write at once. Supply limited.

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Anona squamosa, Sugar-apple, 12-15 inch.....	1.25	8.00
Bauhinia acuminata, White Mountain Ebony, 18-18 inch.....	2.00	15.00
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Camellia thea, Tea-plant, 6-8 in.....	.75	5.00
Canna fasciata, "Orchid-canna" roots.....	.40	2.00
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Caryota urens, fine pot plants, 10-12 in.....	1.50	10.00
Latania Borbonica, Fan Palm, 10 in.....	.85	5.00
" " 10-15 in.....	1.00	7.00
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Just across the Missouri river from Omaha, is Council Bluffs, and it is here that the immense plant of J. F. Wilcox is situated, some 75,000 feet of glass, beside the vegetable department about 1½ miles from the city, the largest place of its kind in the west, 50,000 square feet where vegetables are grown the year round.

Mr. Wilcox is comparatively a young man, but he is a hustler and his time is well taken up between these two establishments besides a large acreage of land.

Three large houses for roses, 100x20, short span to the south, and one 140x12 have been added this year. The glass is double thick and is butted with white lead between; a new potting and packing shed 25x140 is also nearing completion.

The roses grown here are shipped in greater part to Omaha, but quantities are sent through the states of Nebraska and Iowa. One house of Meteor, 140x24, was faultless, and a house of La France would be hard to beat; foliage perfect, in fact I did not see any mildew in the whole of this "rose factory." Beauties and Woottons are also grown extensively.

A feature here is a block of houses built on a hill as it were, one span 140x125 divided into three houses simply by partitions. Here are grown chiefly carnations, Daybreak, Lizzie McGowan, Portia and Grace Wilder predominating. "Mums" in benches and in 5, 6 and 7-inch pots were clearly "up to date," the "bench stuff" being specially good.

The "small plant" shipping trade here is of large proportions, the market being chiefly west of the Missouri and south.

Mr. Wilcox is hopeful for the future in spite of the partial failure of the corn crop.

J. R. MacPherson who has lately been more affiliated with the vegetable forcing business, has now branched out as a full fledged florist. He has just completed four houses 100x20 and three 100x10, principally for roses, carnations and smilax. They are built in the most approved style. Mr. MacPherson believes in the "best" all the time. The place will be heated by two tubular boilers, with sufficient power to heat 100,000 feet.

All the roses, etc., recently planted were looking first-rate and "mums" coming along nicely.

Mr. MacPherson is determined that his place shall rank high in the future, for as he says "he's in the biz for keeps." B.

Detroit, Mich.

Senator McMillan has now in course of construction an early vinery 20x40, a late vinery 20x40 and a plant house 25x60.

Mr. Thuman Newberry is also building a vinery 20x50, plant house 18x60 and conservatory 20x50.



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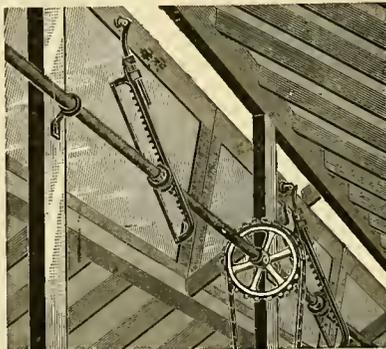
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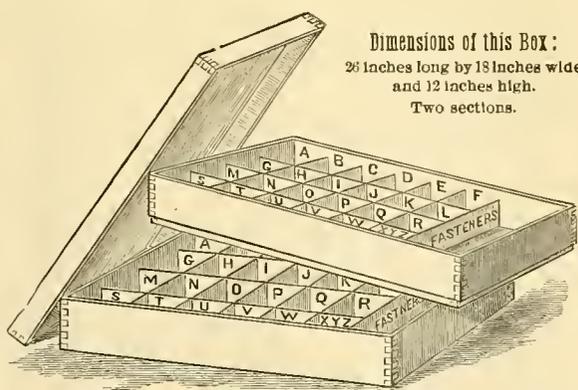
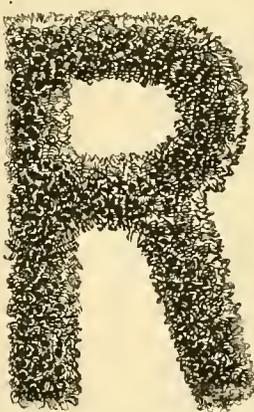
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We desire to announce the dissolution of the firm of Siple Dopffel & Co., and to introduce to the trade its successor, The Syracuse Pottery Co., which will be under the management of William Dopffel and Conrad Breitschwerth. The business will be conducted as heretofore, except on a larger scale to meet the growing demand for our goods. We have accordingly enlarged our plant and capacity, and with unsurpassed facilities are now prepared to fill the largest order on short notice. Our latest improved machines are turning out the best and most serviceable flower pots in the market, and assuring you of our intention to lead in further improvements we solicit a continuance of your patronage in the belief that we can supply just what is needed at a price and in a manner satisfactory to all.

Send for price list and samples and we know you will give us an order.

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THE PARMENTER MAN'FG CO.,
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Topeka, Kans.

Since opening their new and well appointed store the Bates Floral Co. report an increase in their trade and their bank account that has well repaid their enterprise. Trade has picked up a little of late in spite of the pessimistic crop reports, with better hopes for the future.

The death of Charles Martin, son of U. S. Senator Martin, was an "ill wind" that benefited the trade here. One emblem made by Mr. Bates was particularly handsome and a little out of the ordinary run of these "floral monstrosities." A scroll with a groundwork of ivy leaves and a cross of roses, standing on a cross of blue heliotrope in bold relief, the base of the scroll finished in white carnations, the whole finished with smilax and Adiantum cuneatum.

About a mile distant are situated the greenhouses, six 50x20, filled with the usual florist stock, roses looking exceptionally well.

Bird & Rodman were busy with a decoration of the K. of P.'s hall, who were about to hold a "pow wow."

F. E. Keith & Co.'s houses were looking well, and carnations in spite of the drouth fine; their collection of palms would rival many eastern houses of their size.

H. Hulse confines himself more to growing roses and carnations. A bed of La France was of high merit. He ships quite heavily to Kansas City in the season and his goods compare favorably with heavier shippers.

James Hayes did the decorations for Senator Martin, and considerable of the floral work. His "mums," roses and carnations all had the stamp of good health.

Sioux City, Ia.

J. C. Rennison has just completed a new house 100x18 for chrysanthemums and miscellaneous plants. "Mums" are one of the specialties here, Mr. Rennison holding an exhibition annually in a down town store hired for that purpose; it has always proved a good advertisement and investment.

All the standard varieties of roses are grown here, Clothilde Soupert included, it being found very useful for ground work in designs. The new rose Senator McNaughton is also being tried for the first time. A house 190x22 filled with La France, Meteor and Testout were of high merit.

Wire stakes are used exclusively here, but they are "crimped" so that the whole house has a zigzag appearance. It is said that one visitor thought they were snakes! But Sioux City is in the state of Iowa, so that must have been impossible.

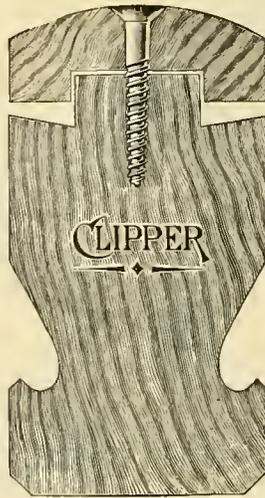
For carnations Daybreak heads the list, followed hard by L. McGowan, Tidal Wave, Grace Wilder, Portia; all fine plants, considering no rain had fallen since May.

Clematis paniculata grown inside has proved quite a success, its white, graceful and perfumed racemes being specially useful for wedding and other cut flower work.

A nice collection of decorative plants, ferns, etc., including a few orchids, were in fine condition.

John R. Elder is building a new propagating house 40x11.

Chrysanthemums, roses and carnations are the specialties of which Mr. Elder disposes in his city store. The greenhouses are situated on the banks of the Big Sioux river, the dividing line from South Dakota.



"Proof of the Pudding"

LANCASTER, O., June 4, 1894.

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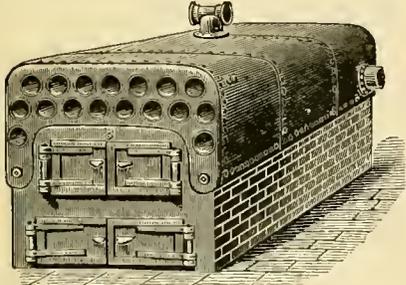
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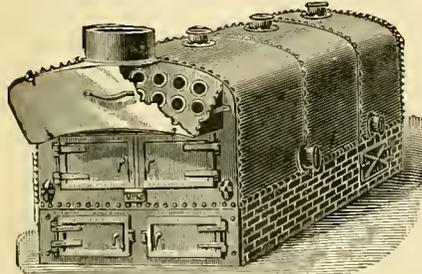
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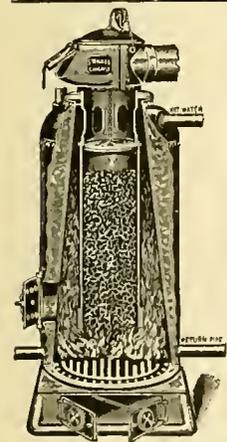
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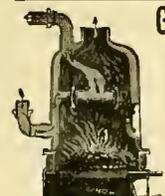
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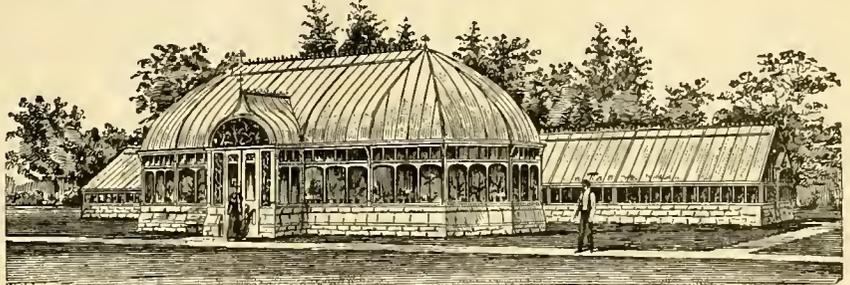
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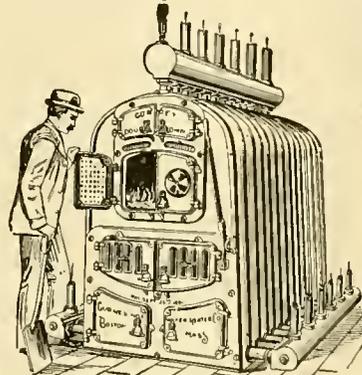
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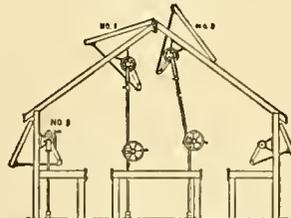
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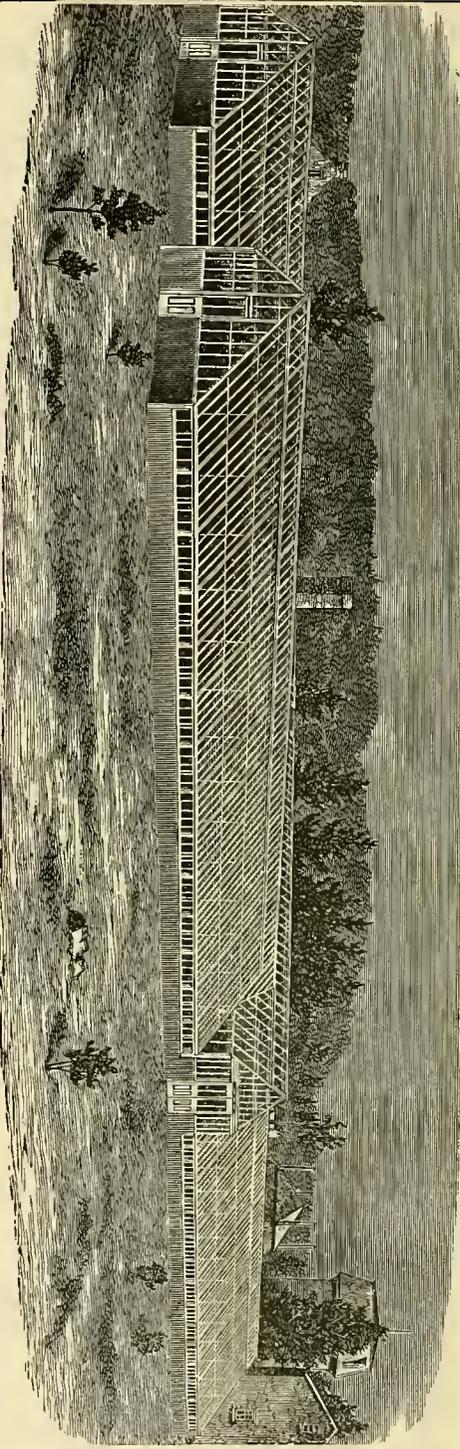
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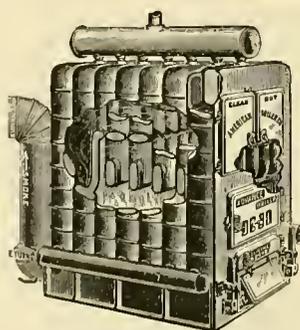
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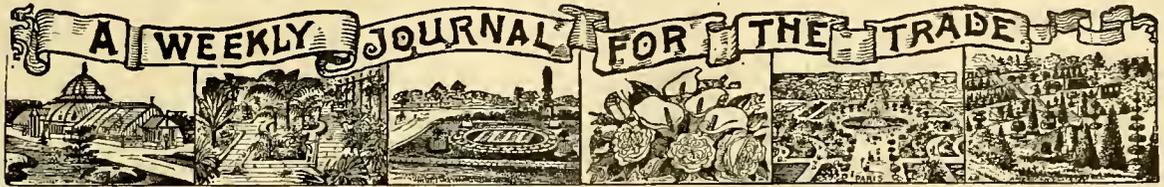
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Vol. X.

CHICAGO AND NEW YORK, OCTOBER 13, 1894.

No. 332

THE AMERICAN FLORIST

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SOCIETY OF AMERICAN FLORISTS.

J. T. ANTHONY, Chicago, president; ROBERT KIFT, Philadelphia, vice-president; WM. J. STEWART, 67 Bromfield St., Boston, Mass., secretary.

The new officers to be installed Jan. 1, 1895, are: EDWIN LONSDALE, Chestnut Hill, Philadelphia, president; E. C. REINEMAN, Allegheny City, Pa., vice-president; WM. J. STEWART, Boston, secretary; H. B. BEATTY, Oil City, Pa., treasurer. The 11th annual meeting will be held at Pittsburg, Pa., August, 1895.

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CHRYSANTHEMUM NOTES for this week will be found on page 247. Through a blunder on the part of some mail clerk they were delivered to us too late to secure their proper place.

CANTON, O.—Betscher Bros. of Canal Dover, have taken charge of the greenhouses of the late Louis Engle and will run them in connection with their place at Canal Dover.

WHENEVER you want anything pertaining to the trade, and do not find it offered in our advertising columns, write to us and we will take pleasure in assisting you to find what you want.

A few Suggestions on How to Manage 20,000 feet of Glass.

BY JOHN WELSH YOUNG.

[Read before the Florists' Club of Philadelphia October 2, 1894.]

In these days of sharp competition every grower must practice economy and systematize daily routine work of his place, for no matter how ably plants are grown, prosperity will not remain where business principles are broken. The management of 20,000 feet of glass may be more readily considered by dividing the subject into two parts, expense and income.

Our places, some larger, many smaller than the one we are considering, are now stocked, ready for the winter campaign, and the most important item in the expense column to us all is labor. Few, if any, of us can secure the best results from so large a place unaided. A good practical foreman who will take a personal interest in his employer's business is needed. Pay him liberally; get a good gardener for second man, and make up the force with boys from fifteen to eighteen years old who are willing and anxious to learn the business. These boys, if carefully chosen and advanced as they improve, become an important factor in our labor; for from their ranks should come the gardeners of the future who from their knowledge of the requirements of our business should be far more useful than men who have not served this apprenticeship. Thorough system in the daily work will greatly aid in securing the best results from our labor. Each employe should have his regular job with which to commence the day, be it cutting, packing, firing or airing, that everything may be in readiness for the special work that follows with as little delay as possible. A spirit of rivalry, too, is often a help in accomplishing work. This summer one of our growers had two rose houses to empty, clean and refill with soil. He took the boys and one house and gave his foreman the men and the other house and they raced. It was not long before both houses were ready for planting. No one can say exactly how many men are needed to run 20,000 feet of glass, so much depends on the kinds of plants grown, distance from market and so on. A safe rule is to have just as many men as will enable you to keep everything neat, clean and in good order and no more.

Coal is the next important item of expense. It will be readily admitted that as a night watchman must be kept, the small sizes are the most economical. Coal should be bought by the carload from a good wholesale house in the summer or early fall and the full winter's supply stored then. This plan has several advantages; the hauling can be done at a dull time; the coal is of better quality and lower price than later in the season, and

the vexatious delays so often experienced in getting orders filled in winter and early spring are avoided. Pea coal is the most popular size with the growers at present. Where the conditions are favorable buckwheat at current prices is more economical. With pea coal worth \$2.70 a ton on the railroad track and buckwheat \$2.05 a ton, the latter should show a saving of at least 15% in cost, and as most of the extra labor falls on the night man, this can hardly be called a disadvantage. Possibly with higher smoke stacks and with grates having the bars closer together we may find rice coal even more economical.

The remaining expenses while larger in the aggregate are too numerous to be discussed in detail; suffice it to say that while each item should be carefully considered with regard to quality and price, nothing should be omitted that will help, even a little, to make the houses yield finer and more abundant crops, for the small extra cost of such things as bone meal, nitrate of soda or peat will be returned with interest at harvest time.

To secure the best income from 20,000 feet of glass it is well to have a few specialties for which our soil and houses are adapted and which our market requires. Many growers are obliged by the requirements of trade to have a general line of commercial plants, but even then it is well to have one or two specialties for which we may be known among our brethren in the craft. A leading grower once said he always grew a few things that paid him poorly in order that they might help sell the things that paid well. While he only meant this in a limited sense, the idea that varieties of cut flowers, decorative plants and blooming plants have their ups and downs in popular favor, is worth remembering. Further, when choosing between two equally good varieties of plants from which to work up stock for a new house, it often pays to take that one which is least grown by your neighbors. Two or three years ago in Washington state, wheat brought eighty cents a bushel. Everyone grew wheat and this season it sells for twenty-five cents a bushel, or less than cost; while other cereals that do equally well there are scarce and command high prices. Smilax and Perle roses have at times been overdone in this way.

Having planted our stock, the next point is to arrange the crops in such a way that the houses will not be idle a single week in the year. Roses and carnations planted out and palms and other decorative plants in pots can be grown under glass all the year round less only a day or two for changing stock and cleaning the houses. Chrysanthemums planted in the bench can be followed by hybrid roses in boxes or pots and then geraniums, summer roses, by lilies, hydrangeas and later coleus. There are many combina-

tions that can be arranged nicely. The following story is a good illustration of this point; though it is not new. A gardener rented a piece of ground in England with a provision in his lease that he was to vacate on short notice whenever his landlord chose, provided the latter paid him in full for the crops that were in the ground. So well was the place managed that the landlord found to his dismay that the crops in the ground always amounted to the full value of the land! He finally sold his tenant the property at a low figure in order to get rid of him!

After the houses are filled try to have a reserve stock of some kind that can be brought in out of the frame in case of need. Remember that the late Peter Henderson with all his wonderful success never had a single year in which something did not go wrong. And if in spite of our best efforts something does go wrong, far better throw it out and replace with sound healthy stock even though the season be half gone than to waste labor and coal on a lot of rubbish. Dormant roses, hydrangeas and sweet peas are useful in this way. The question of economy of space under glass is a fruitful subject for discussion. Just how close together different varieties of plants can be grown consistent with perfect culture, as in the case of commercial fertilizers, great care and judgment must be used not to overdo it. A lesson in this point can be learned by a visit to the Chester County carnation growers. Here the plants are packed in the beds and benches like sardines in a box. The space for walks is often so small that it is a mystery how the grower does his work without wings. Yet the condition of the stock testifies that the work is done and well done.

A record of some kind should be begun now which will show just what each house has produced in the way of plants and cut blooms and the price realized from their sale. This record will prove most valuable next summer, for it is very difficult to even approximate results without the aid of figures.

In conclusion, let us recognize and strive to overcome two great dangers that lie in our path to success and try: First, to be perfectly reliable, never promising more than we can fulfil. Second, to be prudent in building, not to increase our glass until fully able to run it.



TO PREVENT RUST.—Dissolve one pound of sulphate of copper in two quarts of ammonia in a 2-gallon jar. When dissolved add another quart of ammonia and stir well. [The liquid can be kept in this form for some time and used as needed.] Add a pint of this solution to a barrel of water and syringe the plants with a force-pump every two weeks. And don't let the time for spraying pass without attending to the operation.

Carnation Notes.

"Good morning, old friend, here again, are you? What can I do for you to-day?"

"Well, Charlie, when I was here last week I saw that you were cutting a great quantity of wire netting into different lengths and I wanted to see how you were applying it."

"Oh, I have adopted the same plan that Mr. Dorner intends using this season, and as he describes it fully on page 196 in the issue of the FLORIST of September 29,

only I will not run the strings diagonally across the wires but half way across the bench and the same with the wire netting leaving an open space of one foot lengthwise of the bench for a free circulation of air. You see my benches are mostly six feet wide and a solid bed that width is apt to hold too much moisture on the foliage on cloudy, cold days. I experimented with this double wired system last year in a small way and it worked to perfection. As for the other supports as shown on page 195, why I tried almost the identical things fifteen years ago, and with the exception of Michell's, which will do very well for one who is growing for pleasure only and where space is no object, I believe they are worse than the old stake system, as they are bound to confine the foliage and stems so closely that they will make a harbor for rust, spot, red spider, aphid and every other trouble or disease that the carnation is heir to, and when you come to picking the flowers with long stems, well they are out of the question. The great advantages to be derived from using the inverted netting in the rows between the plants has been fully shown to you. There is one mistake easily made in the wire netting and that is in using too small a mesh. I do not think that anything less than one inch is practical. This is also the opinion of the Dailedouze Bros., who used considerable of it last year, but will not do so again."

"Well, now Charlie, you tell me to keep the surface of the soil moderately loose, but I see yours is getting quite firm."

"Very true, but do you not see those small white roots making their appearance on the surface? Leave those alone, for if you harm them you injure the plant, as they are the great feeders. To keep the surface loose we will put on a mulch of sheep manure as we have done on most of the benches. You see my houses were all planted before the 25th of August and I will begin to pick flowers from new growth by the 10th of this month. You see the great advantage of as early planting as this is that the natural inclination of the carnation is to bloom and produce seed before frost. Now if the plants are kept pinched back until they are placed in the houses they will start away vigorously to bloom; you will thus be able to pick fine flowers by the middle of October and continue through November and December, and as the sun gets in its good work in January the plants start off again with a rush, but if the plants are taken into the houses the latter part of September, and in bud, they will mature a few of those buds and then, as a rule, lie semi-dormant until late in January unless you have an unusual amount of sunny, bright weather during December.

"It does seem tough not to have flowers to pick now when Scotts and Daybreaks that are good are bringing two dollars per hundred in New York, but my experience has taught me to do as I am now doing. The rush of chrysanthemums that is coming will not affect first-class carnations to any great extent, simply because the majority of growers stick to the old method of housing plants in bud."

CHARLES H. ALLEN.

Chester County Carnation Society.

The society held its first regular meeting after the summer vacation October 6, with a fairly good attendance. E. Swayne asked for information about the proposed Philadelphia commission house, but no light being shed upon the subject the committee on sale of flowers was authorized to investigate the matter.

After some discussion a resolution was unanimously adopted deciding to ship flowers only to commission houses making prompt weekly reports of sales.

Wm. Swayne reported all plants housed and looking well generally; most varieties stood lifting as well or better than usual. A letter was read from E. D. Darlington urging a good display at the coming fall show of the Penna. Hort. Society. The growers present reported the cut of flowers for current week as about 33,000; most of these are from out of doors, this branch of carnation culture having increased largely in this section in the past two or three years.

A motion was carried authorizing the secretary to notify members that special effort would be made to have a good display of carnations at the Philadelphia chrysanthemum show in November, and that a committee would be on hand to stage the display.

Edw. Swayne showed a fine bunch of Ophelia; Wm. Swayne a very large deep pink, and Percy Barnard three new crimson and one white, all good specimens.

C. J.



Committees for Judging New Chrysanthemums.

In compliance with the resolution adopted at the last meeting of the Chrysanthemum Society of America Pres. E. A. Wood has appointed the following committees to examine and pass upon new seedlings and sports.

BOSTON.—A. H. Fewkes, Horticultural Hall; Lawrence Cotter, James Wheeler.

NEW YORK.—Eugene Dailedouze, care of John Young, 53 W. 30th street; Ernst Asmus, Wm. Tricker.

PHILADELPHIA.—Edwin Lonsdale, 1514 Chestnut street; Robert Craig, Thomas Cartledge.

CINCINNATI.—Richard Witterstaetter, Cor. 4th and Walnut streets; Fred Walz, H. L. Sunderbruch.

CHICAGO.—W. N. Rudd, Room 202, 185 Dearborn street; Frank Leslie, E. A. Kimball.

The foregoing committees will be in session October 20 and November 10 in their respective cities. Blooms addressed to the chairman (express paid) will be examined and reported upon under these conditions, viz:

Not less than six blooms of each variety to be shown and these to be only such varieties as have been given at least the second year's trial.

No member of a committee shall exhibit his own blooms before a committee of which he is a member.

It will be well for those who exhibit seedlings under number to also provide the committee with a name to be used in case the variety is commended so that they may be reported upon by name rather than number.

THE American Pomological Society will hold its next meeting at Sacramento, Cal., January next.



CORNER OF A BERMUDA LILY FIELD WITH AGAVE IN BLOOM.

Bermuda Notes.

In the Atlantic Ocean, 700 miles south-east of New York and the same distance directly east of Charleston on the South Carolina coast lie the Bermuda Islands or Somer's Land. The Gulf Stream, that great factor in climatology of some oceanic countries, is crossed about midway in the journey from New York. This little country, scarcely more than 24 square miles in area, for the main group, is of especial interest to the horticultural and floricultural world as producing the earliest garden products, at a time when we in our country are snowbound and ice locked and as the home of the Bermuda Easter lily, one of the important forcing bulbs used generally by the florists of this and other countries. We are aware that the average Bermudian is looked upon by some of these as a designing individual who exports to our market undersized, diseased and "blind" bulbs put up in short count packages, and finally adds to the injury by flooding our flower markets with cut flowers at a season when our florists have grown their Easter crop at great expense and find the market unfavorably affected by this unwelcome competition. A recent visit to this inter-

esting land shows such aspersion to be too sweeping, and the lily growers in the main as well intentioned as growers of any product in any land.

Aside from the bulbous product of the Islands there is a profusion of tropical and other interesting plants embracing a list too full for enumeration here, which would afford a plant lover weeks of study and delight. Nowhere have we seen such peculiar beauty of landscape from the first effect of the hills covered with the everlasting verdure of the Bermuda juniper, imparting what would otherwise be almost a somber monotony except for the hedge rows of oleander bounding the fields and roadways, the thickets of musas and palms, and the quaint architecture of the cottages built of coral limestone and embowered amid the foliage with their walls and roofs peeping through and almost twinkling in their whiteness, to the sloping coral shores and the marine beauty surrounding the islands. Neither is this a land of the "sere and yellow leaf" but one of perennial verdure and bloom, and at the time of our winter and earliest spring the tourist can feast his vision on fields of blooming lilies crowned with waxy whiteness. Lilies were grown in Bermuda

dooryards and gardens as long as eighty years ago, imported of course, as although this bulb thrives so perfectly it is not indigenous there. Florists are familiar with the history and rise of the Easter lily from its first popularization as a cut flower variety by Mr. W. K. Harris of Philadelphia, and the subsequent increase of its cultivation until now the Bermuda output of these bulbs is upwards of two millions, and their use still increasing. Several growers of these bulbs claim the distinction of growing them commercially and putting them on the market first and recount their operations of collecting the scattered products of flower gardens on the islands, gathering a few clumps here and there and by careful division of the small bulblets and scales from such limited sources securing stock to grow largely so that it would be invidious to assign any one the honor of first commercial cultivation, as in the race after a new money crop several growers placed their products simultaneously upon the bulb market.

The topography of the country is hill and dale, with outcropping of rock and divisions into small plots by hedge rows of the universal oleander. Stone walls and cedar groves rising out of the almost

bare coral rock divides the growing area into small patches, some of them of but a few square rods in extent, and plots of 2 or 3 acres are not common; two of the largest growers there only having fields containing as much as 6 or 7 acres in one place.

The soil, a rich red earth generally lying in "pockets" between and at the bases of the hills is peculiarly fertile and adapted to the crop. Although a limited quantity of *Lilium longiflorum* is produced by far the greater number are of the *Lilium longiflorum eximium* or *Lilium Harrisii* as now known, this latter from its shape of flower and earlier blooming is the most popular, though in some markets, notably Boston, there is a good demand for *L. longiflorum*. Doubtless the climate and conditions of Bermuda have changed the form of both of these lilies, but that the *L. Harrisii* is an evolution from *L. longiflorum* is surely an error, as in form of bulb, stalk, foliage and flower, these season of bloom and other indications, both forms are distinct.

Propagation is principally from bulb-lets, 3 to 5-inch and 5 to 7-inch bulbs, though primarily scales or even seeds are used to produce "stock" for planting. It also often happens that a surplus of large bulbs is left over, and to save them they are planted and this is about all this plan accomplishes, especially if planting is done late, as they do not often increase in size. Planting is done from August to December, September and October is the season in which most are put out. The bulb-lets are set in rows about 6 inches apart and the same distance in the row, every sixth row being omitted for a path. If well planted they should be plunged 6 to 8 inches deep, even 10 inches for the 4 to 5 inch and 5 to 7-inch bulbs is better, as shallow planting induces the crowns to split and throw up several stems producing double, triple and even quadruple clumps instead of the desirable single crown bulbs; besides bulbs growing near the surface or partly above the surface are affected by drouth and burned by the sun, and derive no support from side roots which are thrown out from the main stalk when deep planting is practiced.

The ground is simply scarified and hand weeded during growth to that stage when the plants cover the beds and can smother weed-growth. Deep cultivation is an injury at all stages except the first plowing or spading of the ground, when making the beds. About 60,000 bulb-lets plant an acre and with favorable growth will produce 35,000 to 40,000 saleable 4 to 5-inch and 5 to 7-inch bulbs, while if 4 to 5-inch and 5 to 7-inch bulbs are used for planting, a larger proportion of saleable stock is yielded, much of the product from this size "seed" grading 7 to 9-inch and sometimes over. Generally speaking seeds and scales produce the first season small bulb-lets, these the next season giving a crop of 4 to 5-inch bulbs and these the following year 7 to 9-inch and some 9 to 11-inch bulbs, so that from seeds or scales it requires from 2 to 3 years to produce the respective sizes mentioned.

The demand latterly has been for 5 to 7-inch bulbs, so that the greater share of the crop is fit for market in two years, though 7 to 9-inch, 9 to 11-inch and 11 to 14-inch take three years and even longer to "make."

Insect depredations do not operate, but blight and "the disease" some seasons injure yield and quality, these drawbacks occurring mostly on grounds too frequently cropped.

Late planted bulbs seem to flower as early as earlier plantings, but with

shorter stalks and of course less growth of bottoms in the shorter growing season. These make the loose scaled flimsy bulbs so frequently complained about. The flowering season begins about March 1 and continues 8 or 10 weeks, when the bloom ripens, droops and falls off. It is settled that if this is removed, especially with any considerable portion of the stem, the bulb is injured thereby and there is no doubt that the practice of cutting the flowers about Easter is against successful flowering of the bulb the following season. About June 15 to 20 some growers begin digging the crop stimulated by the demand from dealers who wish to offer early deliveries to customers, though there is no doubt that if lifting was deferred 2 to 4 weeks later the bulbs would be much better, the natural season of ripening occurring in July except for *L. longiflorum*, which remains green fully one month later.

The present season extreme drouth prematurely ripened the whole crop in advance of the usual time, and the earliest delivery of ripe bulbs ever known was made in June and earlier part of July. As soon as bulbs are dug they are picked up immediately, as half an hour of glaring sun at this season burns and withers the fleshy scales, ruining them. No curing process seems necessary before packing, if put up in sand, which so far has proved to be the best material, seeming almost to have antiseptic properties for preservation of the bulbs. Sawdust, excelsior and paper are also employed for packing and those who use them favor drying the bulbs in the shade a few days before packing, while by the sand method they go from the field into the boxes—after cutting off the roots—in the same hour and keep perfectly. Packing is done in strong iron strapped boxes usually of uniform size containing 350 to 400 5 to 7-inch, 150 to 200 7 to 9-inch, 100 9 to 11-inch, and 50 11 to 14-inch bulbs each, and are now ready for shipment. In assorting bulbs the most expert help is employed in grading the different sizes, counting, packing and separating *longiflorum* from *Harrisii* bulbs, though easy to distinguish the former, which is of flatter form, broader and more bluntly pointed scales, and a shade lighter yellow than the *Harrisii*. The *longiflorum* has a stronger tendency to throw double stems and split in the crown than *Harrisii*, which in this variety is not even remedied by deep planting, so that a crop of these is fully 50 to 60% double crowns in the small sizes and sometimes 70 to 80% in the 9 to 11-inch and 11 to 14-inch sizes, so that growers have been dropping their cultivation, and these are hardly produced in sufficient quantity to supply even the comparatively small demand for this kind.

Prices for Bermuda bulbs have steadily decreased since the first exports. Production now of *L. Harrisii* is fully up to the demands. With each year's decline some growers prate of no profits and talk of abandoning the business, yet every fall the planting mania seizes them, and they still continue at the old stand. The Bermudian surely has a monopoly in his climate and soil, but aside from this the expenses of cultivation show no reason why he cannot produce this stock as low as other bulbs grown in this and other countries which do not net the grower half as much money, and our observation while there showed where processes could be cheapened and our more advanced agricultural methods employed so that his crops should cost him less.

The impression that land is scarce in these islands is not well founded, as at a

fair estimate not over one-third of the arable land is now under cultivation.

Viewed from a New Englander's standpoint, where many farms have been made by blasting and clearing the land of rocks picking up stones and sinking them in drains, and piling them into stone walls, grading and filling land and reclaiming marshes, much more than two-thirds of Bermuda is available for culture, and this with rotation would afford fresh lands for crops for another century. It is quite sure that with each decline in prices for bulbs it will be hard to advance them to previous year standards, and there must come about a compensation in cheaper methods and economies of production if profits are to be preserved.

BURT EDDY.

The Forcing of Hardy Plants.

[Read before the *Gardeners' and Florists' Club of Boston*, by Charles J. Dawson, October 2, 1894.]

[CONCLUDED FROM LAST WEEK.]

LIST OF PLANTS FOR FORCING.

The following species and varieties with a slight description of their flowers and manner of growth I have tried and found satisfactory. In giving this list I have selected kinds most desirable, leaving out all varieties which are good only for botanical work:

Andromeda speciosa, of which I have spoken before, is beyond question one of the most beautiful shrubs for forcing. A plant well covered with flowers in March has few equals in a greenhouse, and it should be more generally grown. It requires a long season of nearly three months to bring it into flower, care being taken not to force it too rapidly. *Andromeda japonica* is very easy to force, taking from two to three weeks, but it is rather hard to obtain suitable plants. *Andromeda floribunda* can be brought into flower for Christmas without much exertion. The above mentioned are ever-greens, with white flowers and good foliage; will carry well, and by keeping a good stock in frames may be had at intervals all winter.

The mountain laurel (*Kalmia latifolia*) is a remarkably good plant for forcing purposes. This can be brought in a cool temperature of 50° in December, and can be had in good bloom from March on. As the plant advances it can be put into a warmer temperature, care being taken to keep it constantly syringed until the buds begin to show color, after which it should be stopped, or you will spot your flowers. *Kalmia glauca* can be brought into bloom in about six weeks. Some beautiful plants of this species were imported a few years ago and potted in 6 and 7-inch pots; when in flower they made a perfect picture, lasting some time.

Ledum latifolium (the Labrador tea) is very easily forced, but not very showy though. *Leucophyllum buxifolium* makes a very pretty little pot plant when in flower.

All the rhododendrons force well, especially the tender varieties, which can be obtained at a comparatively low price in the fall from abroad when you order your Indian azaleas and the like.

Erica carnea in varieties forces very easily and is very satisfactory in 5 or 6-inch pots, grown in a cool house or in the corner of a violet frame, its pink or white flowers lasting several weeks.

Daphne cneorum is the best of the daphnes for forcing, and is delightful with its sweet scented pink flowers.

Epigaea repens (the Mayflower), which is a favorite with everyone, is easily forced, though a little uncertain. Form-



HARVESTING LILY BULBS IN BERMUDA.

ing its flower buds in the autumn, it is ready to burst into bloom as soon as spring opens. Plants should be selected with considerable care from the woods in November, taking particular care to get a sort of ball around the roots; they should be planted in pots, pans and boxes, and placed in frames or at the end of a cool house. They are ready to force at any time. With a little trouble or extra heat they may be had at Christmas. If this plant could be properly handled it might be profitable to grow. All the above mentioned plants are evergreen, and are all very good forcing plants.

Azaleas all force well, especially the mollis and Ghent varieties. These plants are usually imported and well filled with buds. They should be firmly potted in a peated soil and placed in a pit, care being taken not to bring them into heat too early, and not to try to force them in too high a temperature. They are rather slow in starting, but are very satisfactory when in flower. After blooming special care should be taken to get new growths, and to be fed well, as they are much better if grown in pots all summer, making splendid plants for the next winter's forcing. If you have home grown plants they should be lifted the last of August, and after making roots, upon the approach of frost should be placed in a sheltered position.

Philadelphus coronarius and varieties, commonly called syringa, is good for forcing, large plants boxed off being the best and forcing better the second year. It should not be pushed too rapidly, taking over two months to get it in good form.

Spiræas are important for forcing, Spiræa Van Houtteii being without doubt the finest of them all, both inside and out. They should be forced very slowly, but for large decorations they should be very useful, it having one drawback, i. e., the flowers drop rather quickly. S. cantoniensis and its var. fl. pl. are also very

good, but should be lifted rather early, as the flower buds are apt to be killed by severe frosts. S. Thunbergii, though beautiful as it is grown out of doors, is of little use for forcing.

Staphylea colchica is easily handled, being excellent for forcing, its fragrant white flowers being very attractive. Plants for forcing can be obtained from foreign nurserymen, but often give best satisfaction when forced the second year and are well pot bound. The flower bud forming in the fall, they should be protected from early frosts.

Deutzia gracilis is so well known as a forcing plant that it needs no mention. D. parviflora, rather a rare species, is a trifle earlier than gracilis and is beautiful with its flat corymbs of white flowers. D. scabra and its several varieties, a coarser growing and later species, is also good for forcing. All these can be lifted late and put into pits at once, as they are well furnished with fibrous roots.

Exochorda grandiflora is fine for forcing, if suitable sized plants can be obtained, and grown in pots for one year. Care should be taken not to force this plant too rapidly, or the results will be very unsatisfactory. Grown cool, in a partial shade, the results will be good.

Viburnum Opulus sterilis, the common snowball, forces readily; care being taken to obtain plants well set with buds. V. plicatum is easily handled, and carefully selected plants will give a large amount of flowers in a comparatively small pot or tub. V. rotundifolium is about two weeks earlier than plicatum, but of a less sturdy habit.

Ribes aureum and R. sanguineum force easily, their fragrant flowers keeping well and would be quite a novelty.

Pyrus baccata and var. Parkmanii is best of this class for forcing if care is taken to obtain grafted plants. With a little care, by growing on in pots for a year, they can be had in bloom Christ-

mas, when they should find a ready market.

Cytisus scoparius, the Scotch Broom, is grand for forcing, and if plants are well grown, are more than beautiful, when in bloom; the plant improving if kept growing on in pots the year around. C. præcox is also a good forcer.

Magnolia stellata is by far the best of the magnolias; the only trouble is to obtain suitable plants for forcing, the same trouble being the case with Wistaria sinensis, which can be beautifully forced, if plants can be obtained.

Of the single roses Rosa multiflora, the Japanese variety is the best; it being easy to train it into a beautifully shaped bush and will flower in great profusion. A medium sized plant in an 8 or 10-inch pot will throw several hundred flowers which might be very useful for making up purposes. The hybrid of this, called the Dawson rose, is equally good for forcing.

Iberis sempervirens and I. Tenoreana are the best of the candytufts, and should be very useful for florist work.

Syringa vulgaris and varieties is too well known to call for any remarks, and S. persica forces equally well; the flowers being a little more delicate than the just mentioned species.

Lonicera tartarica in varieties is fine to force, but drops its flowers easily, as do the various varieties of Prunus triloba.

Rhododendron Vaseyi is equally as pretty when forced as it is out of doors, also R. Rhodora and R. Dahuricum, var. macronatum; the latter being easily brought into flower in a week to ten days.

Jasminum nudiflorum in a cool greenhouse blooms in short order, and continues pretty for sometime. A great many other shrubs will force extremely well, but I have mentioned the above as some of the best. In regard to the herbaceous plants and annuals suitable the list is very long but I will only mention a very few of the best.

Cypripedium spectabile, *C. pubescens* and *C. acaule* are beautiful, forced; a good grown pan of any of them comparing well with any greenhouse orchid. Plants can be obtained from their native state in September, and planted close together in boxes or pans in a soil mostly of sphagnum and leaf mould, can be forced at any time after New Years, the results being very satisfactory, care being taken to keep the first two mentioned very wet.

Trillium grandiflorum, when obtained in good clumps, is desirable.

Spiræa aruncus is grand, when something showy or decorative is desired. Big clumps are to be sought after, but be careful not to injure the leaves by fumigation.

Viola pedata is easily handled in 8-inch pans and is very pretty in flower, and can be easily obtained from the woods in the fall.

Aquilegia canadensis, var. *nana* is the best of the columbines. For forcing, plants should be started in the early summer in flats.

Polygonatum giganteum is the best of the Solomon's Seals, and is beautiful forced.

Phlox subulata both pink and white varieties, always force with grand results.

In conclusion, I would say there are many plants which I have not mentioned which do equally well as the above, and with a little care and management a great deal of satisfaction and pleasure can be had from the forcing of these hardy plants.

Perennial Asters.

At this season of the year the fields and meadows are bright with the different varieties of perennial asters, and he who will introduce them into his garden will find them equally effective there; for they will respond to generous culture with more vigorous growth, greater freedom of bloom and larger flowers.

By planting the tall *Novæ-Angliæ* and its variety *roseus* among shrubbery or the back rows of borders their gay spike of bloom will make the greenery bright and attractive, and *longifolius* is desirable in similar locations; and by adding some of the newer of *Novæ-Angliæ*, like "Mrs. Richards," with small pink flowers, or "Glow," the bright carmine one of similar habit, a still greater diversity is obtained.

Sunny slopes by woody drives can be made attractive by planting clumps of *corymbosus*, *vimineus* or *multiflorus*; while in broader spaces the large starry wands of *ericoides* will afford enjoyment, and some of the newer forms like "Wood Nymph," of a delicate lavender tint, or "Queen of the Garden," of a rose shade, will be an attraction to the seekers after novelties. In shady places, under trees or north of walls, with the hardy ferns as a setting, *radula* and *acuminata* with their starry white blooms will present a picture that will invite rest and pleasure. But *spectabilis* must not be forgotten for it is one of the most brilliant with its sky blue robe and as rare as choice. What could give better effect than a bed of *ptarmicoides* with its masses of white blooms, with an undergrowth of bright *alternanthera* or the glowing red of the *achyranthes*, to give character before the aster blooms, and if more variety is wanted or contrasting beds desired let *linariifolius* be added, with its lavender colored blooms. Clumps of *undulatus* may be dotted here and there, for they

will give a wealth of bloom, of many delicate tints of lavender, lilac and rose.

Cordifolius demands recognition, for well grown plants from their abundance of bloom recall drifts of snow or sprays of foam and from their beauty and grace will obtain numerous visitations; if variety is sought elegans will furnish the darker shade, and "Silver Spray" the white, and the new and novel and rare will be found in *tubiflorus*, a variety with its petals transformed into tubes, after the style of the tubular *chrysanthemum*.

Another of the strong growers can be found in *Novi-Belgii*, forming rich and grand showy masses of a variety of colors; "Lady Trevellyn" being the best of the whites; *versicolor*, pink and white, chameleon like in its coloring; *Dreerii*, with garlands of pale rosy purple flowers; while "Archie Hind" and *formosissimus* are brilliant in their robes of deep purple blue, and "Arctaurus" with his ebony stems and glossy foliage will be welcome guests.

The last to bloom but not last in beauty, even defying Jack Frost in his first attempts to set up his reign, are *Shortii* and *turbinellus*, the last being one of the most distinct and choice of the family, of a delicate shade of pink, while *Shortii* is a giant in growth, five feet or more, and as bountiful with his blooms in proportion to his stature.

Many more are waiting the invitation of the culturist in their desire to make our gardens beautiful in the late autumn days.

GEORGE HOLLIS.

South Weymouth, Mass.

Miscellaneous Seasonable Hints.

It is about time to think of sweet peas if you want them in flower by March, when they fetch their best price. If you can afford to devote a whole bench to them don't let it be too deep or too rich. The writer had a grand failure last spring, and is quite willing that others should not fall into the same mistake. The house was facing south, large glass and a temperature of 50° at night. Everything was all right except that there was one foot of rich soil, and below that the natural ground. They grew 12 to 15 feet in height and gave little flower, and what little flower there was came very late. You can grow a profitable crop of sweet peas on a carnation bench; by the time the peas are taking up much room the carnations will be able to take care of themselves, and if the peas do encroach on a plant or two of carnations they will return money enough to allow of the sacrifice of a few carnations. They can (the peas) be grown on the north side of the middle bench of a carnation house and trained up the iron or wooden pillar. It is best to sow at once one-half dozen seeds in a 3-inch pot, and when well up thin out to 3 or 4 of the best plants. Plant out in a month or six weeks' time. In the spring white and pink are the colors most in demand; *Blanche Ferry* for pink and *Emily Henderson* for white. The shallow bench, 4 or 5 inches of soil, does not allow the peas to grow so rampant as a solid bed, and throws them quicker into flower; in fact it's a case of arrested development, and flower is the natural consequence. If the soil is a little heavy and well beaten down round the peas so much the better.

Let your hydrangeas get a little freeze on them before lifting. It hardens the wood, and they ripen and force better. Pot firmly in a liberal sized pot. Good, chopped up loamy sod with a fourth of rotten manure will suit them, and pot

firmly. If you don't have a house just above the freezing point to winter them in then you can keep them along the edge of the path of the coolest house you have and they will do all right until they start to grow in March, when they must have a better place.

Before the violets begin to bear many flowers they should be carefully gone over and all runners cut off. It is particular to do this now. After this the runners that come will not do so much harm. Some growers let the runners go after December, as they will take root, make crowns and give flowers in the spring when the old crowns are exhausted.

You ought to be cutting a good crop of smilax from the beds planted early in July. The beds will not want mulching yet. Wait till the next crop is cut. Cut every string clean as you go and don't water the bed till a growth of a foot or so is made. If you water a smilax bed when denuded of all its growth it will rot the roots.

Pelargoniums that were propagated in early September will now have filled their small pots with roots. Give them a shift into a 3-inch, or if very strong a 3½-inch; pot very firmly and give them a cool house, and the lightest you have. A shelf near the glass where the air can circulate round them is the ideal place for them, but shelves, like brick flues, are almost a thing of the past. Never overwater them; they will keep growing till December, when they should rest for three months. During that time they should be on the dry side. In using the word rest in regard to pelargoniums I don't mean in the sense I would as applied to hydrangeas, but it is a period when little growth should be encouraged. The old plants that you shook out and started fresh will now be growing strongly. If you want them for early spring keep them a little warmer, but well in the light with both the young and old plants. Nip out the end of the growths as quickly as the shoots are strong enough.

Remember that from now on for a few weeks is the best time to move or divide any herbaceous plants you have; perennial phlox, pyrethrum, pæonias and most all of them can be handled now without fear of losing one per cent.

This is as late as you can clip back *cytissus*. If your plants are compact with round neat heads leave them alone, but if there is any straggling growth don't be afraid to shear it off. Don't stand them too close together on the benches; you can almost say that about any plant, but *cytissus* will quickly spoil if there is not daylight between the plants.

If you have occasion to grow that once popular bedding plant *Centaurea candidissima* sow the seed at once. If sown much later it is useless. It is a precarious plant to grow, and you can do without it.

W. SCOTT.

Some Good Decorative Plants.

To be useful to the decorator a plant must needs possess various good qualities and prominent among these are effectiveness and endurance, and if the decorator be also a grower, ease of propagation and rapidity of growth will also be important considerations, but the two last qualifications will not appeal so strongly to the man who buys all his stock already grown, unless it be in the extent to which they affect the price.

A little more variety in decorative stock would certainly admit of more originality on the part of the artist in such materials, but from the fact that only very limited



VIEW IN A BERMUDA CITY GARDEN.

stocks of many such valuable plants are now grown there has been but little opportunity given to the trade to test them. Among the plants well adapted for such use though seldom seen, are one or two varieties of osmanthus, one of the prettiest of these being *O. ilicifolius variegatus*; an evergreen shrub much resembling a variegated holly, the foliage of about the same size and handsomely marked with yellowish white. This plant is considerably grown in Europe in standard form, and makes a nice companion plant for a standard bay tree, being quite as hardy as the latter. *Osmanthus fragrans* is another useful member of this family and will probably be more readily recognized under its former name of *Olea fragrans*. This is also of shrubby habit, having dark green glossy leaves, and producing small whitish flowers during the summer, the flowers being quite fragrant. Either of these plants may be propagated by cuttings of firm young wood, but they root rather slowly, and the quicker method

of grafting is often used, one of the privets being used for a stock to graft upon.

Raphiolepis japonica (also known as *R. ovata*) is another little known shrub of considerable beauty, and so nearly hardy as to endure slight frost without injury. It is of rather compact growth and is well clothed with broad, dark green leaves some two or three inches in length. The foliage is not the only good point about this *raphiolepis* however, for it bears terminal clusters of sweet scented white flowers, these being frequently followed by a crop of berries about the size of large peas, and almost black in color. Seeds of the plant in question germinate quite readily in a cool greenhouse, and it can also be increased by cuttings.

Aucuba japonica has been much more widely distributed than the foregoing, and is frequently in evidence as a hall plant or for filling vases or window boxes in very exposed positions. In fact the *aucuba* may be considered as a generally useful plant, and adapted for filling in a

gap where scarcely any other plant would survive, except possibly an *aspidistra*. *Aucuba japonica* is much more effective when carrying a crop of its bright red berries, but from the fact that the male and female flowers are on different plants it is necessary to fertilize them in order to secure such a crop.

Eurya latifolia variegata is another admirable cool house plant that is well adapted for decorative work, but unfortunately it is a rather slow grower, and cuttings of this plant exercise the same deliberation about rooting. The foliage of *eurya* bears some resemblance to that of a camellia, but is beautifully variegated with light yellow, and the tips of the shoots and young leaves are flushed with pink, this combination of color being particularly attractive. Possibly an improvement in the propagation of this plant might be made by grafting on seedling camellias, but not having tried this operation I am unable to speak from experience on this point.

Pittosporum variegatum is another hardwooded shrub that will bear much exposure and neglect, though not nearly so striking in appearance as the last mentioned plant, the foliage of the *pittosporum* being somewhat crowded, glaucous green with white variegation, and the individual leaves varying from one to three inches in length.

The various forms of *Dracæna indivisa* are among the most enduring members of this large family, and of these *D. indivisa atropurpurea* is one of the most effective, its narrow leaves being of very graceful habit, and more or less suffused with purplish red, the color usually being most distinct near the base of the leaves. This *dracæna* can be had from seeds as readily as the ordinary form, and like the latter may be field grown during the summer.

Farfugium grande and *Aralia Sieboldii variegata* are both old residents of our gardens, and both possess great merit as house plants, their leaves appearing to be impervious to gas and dust. Neither requires much attention in cultivation, and both flourish in a cool greenhouse temperature, and may be used with good effect in filling out a bank of foliage plants.

W. H. TAPLIN.

A New Yellow Canna.

We have received from Mr. J. Freytag of Milwaukee, Wis., blooms of several new seedling cannas. Among them is a yellow seedling from Florence Vaughan which seems likely to prove a marked acquisition. The color is a clear golden yellow, with numerous small dots of faint red, but these spots are so light in color that they do not detract from the golden yellow tint of the flowers in the mass. The petals are very large and rounding, $1\frac{1}{2}$ inches across, the flowers well opened, of the iris type. The spike is very shapely, the flowers being well held out from the stem. Foliage green, habit dwarfer than Florence Vaughan. A very beautiful thing.

Among other seedlings of Mr. Freytag's is a brilliant orange vermilion flower, dazzling in color; unfortunately the habit is drooping, but without doubt the color would make it very showy on the plant. A red of the Bouvier type, with erect spikes, and a very prolific seedling of the Crozy type, were also with these; all showed some points of excellence, though the yellow first named is without doubt the gem of the collection.

Cannas Koenigin Charlotte and Gloire de Montet.

ED. AM. FLORIST:—I send you blooms of cannas Koenigin Charlotte and Gloire de Montet. The Koenigin Charlotte is certainly a wonderful advance over all cannas of the Mme. Crozy type, and it is unquestionably a novelty of the first merit. If all our novelties embraced so marked and distinct an advance as does this exquisitely beautiful canna there would be less complaint about new introductions. Its freedom of bloom, fine habit and grand foliage will put it at once in the first rank of cannas.

The Gloire de Montet is of the same type and color as Koenigin Charlotte, but is much dwarfer in habit and produces even more flowers than Charlotte. Very many who have seen the two varieties like Montet the best, but I am inclined to think that Charlotte possesses greater merit, still there is a place for both of them. I think cannas have come to be a permanent factor as bedding plants and with such promising novelties

in store as the above two and Mr. Vaughan's Chicago and Columbia (Kramer) and Eldorado (Lemoine) there will be no lack of patrons for this useful plant.

E. G. HILL.

The blooms Mr. Hill refers to arrived in fine order. On first sight the flowers suggested a great similarity, but further examination caused us to give greatest regard to Koenigin Charlotte for its velvety brilliance of color, although Gloire de Montet is undoubtedly a very showy bloom. Koenigin Charlotte is even more glowing in hue than the colored plate sent out by the introducer; it is positively radiant, and the colors are strongly defined, the red being splashed and serrated over the yellow at the upper part of the petals. Gloire de Montet appears to have more yellow in the flower than the first named, and the red is more of an orange vermilion, and less velvety than Koenigin Charlotte. One would imagine that a bed of the Koenigin, bordered by the dwarfer Gloire de Montet, would be a very showy and effective decoration.

Regulating Prices.

It is with us again—that old much discussed question as to the practicability of some plan whereby the wholesale prices of cut flowers, roses especially, in the large centers may be regulated.

Unfortunately for those most deeply interested the case is one where theories are of little value, and to those who have studied the subject for years and listened to the arguments advanced on all sides of the question the matter seems as far from a satisfactory adjustment as it ever was, and the only apparent result of the agitation which recurs regularly at this season of the year is deeper discontent.

That vague, but powerful, factor about which we hear so much—the "law of supply and demand"—is a terrible bugbear to the buyer at holiday time and to the grower in the overstocked fall and spring months. The only time when its rule is acknowledged and gracefully submitted to by the grower is when he does his own selling. The price at which he cleans out his stock rather than carry it home looks very different to him in the light of this personal experience from what it would if returned to him by an agent. He learns by actual contact with existing conditions that the fault lies not so much in the method of marketing as in these very conditions which cannot be controlled to any great extent nor argued out of existence.

A few years ago at the holidays and during the cold days of midwinter the chorus of protest and discontent from the buyers was both loud and strong because of the advanced prices which they had to pay. But it was only the natural result of a demand in excess of the supply for the time being, and for this there was only one remedy, viz., to increase the supply until it was sufficient to meet the demand at such times. This was done and now the old holiday advances are no longer possible.

But flowers are not like sugar—they cannot be locked up until the price goes up; nor like coal—the production cannot be stopped and then resumed again at pleasure; you cannot put greenhouses on half time now and then run them at double and treble capacity next January as you can a woolen mill; you cannot turn your establishment to the manufacture of carnations to-day when these are wanted and then two months hence start in at rose growing

because perchance carnations do not bring paying prices. An increased production of roses to meet the midwinter clamor means a spring and fall supply augmented in increased ratio, and the tremendous overstock in the big markets to-day is only the inevitable penalty of the effort to supply the winter demand.

This being the existing condition of affairs, where can a remedy be found? Plainly not in any attempt to set up arbitrary prices; nor is it easy to see how the market can be materially enlarged; and to advocate the destruction of a certain percentage of the daily production is simply a waste of breath or printers' ink, as the case may be.

To us it seems that the situation will provide and apply its own remedy in due time. Rose growing cannot be run at a loss any more than any other business. From the steady continuance of greenhouse building and the rare cases of greenhouse abandonment even in times of great and general business depression it would seem that cut flower growing has not yet ceased to yield a fair remuneration. If disaster does come it will come first to the man who grows rubbish. That establishment which turns out first-class stock is in no danger either present or imminent.

The public know well now what a good rose is, and there is no longer any place for the heaps of badly grown, mildewed and battered stuff which may be seen any morning at any of the large wholesale markets. This is what brings contempt upon the flower trade when exposed for sale all along the public streets; this is what cuts the averages down. Far better one good rose than ten bad ones—better for the grower's reputation, better for his pocket. And better for the general welfare than a score of meetings or impracticable combinations.

New York.

Business is fairly satisfactory all round. Whether it will continue so is problematical. One thing is certain, if chrysanthemums would only stay away for another month the peace of mind of the rose growers would be more firmly established. Mme. Bergmann, October Beauty, Yellow Queen and other early favorites are beginning to come in from all directions and are to be seen in most of the prominent florists' windows already. Double violets are exceedingly poor. The growers would show better judgment if they should dump such stuff on the rubbish heap and wait until they could show creditable flowers before sending them to the market. Single violets are all right as to quality.

The bowling club was organized on Monday, October 8, with Alex Burns as president and John Young as secretary and treasurer. Meetings for practice will be held every Monday afternoon at the alleys on 22nd street and for business once a month. Only members of the New York Florists' Club in good standing will be admitted to membership.

The features of the Florists' Club meeting on Monday evening, October 8, were a communication from the Farmers' Club in relation to a proposed exhibit of chrysanthemums to be held by that organization at 111 W. 38th street on Tuesday, November 13, and to which members of the Florists' Club will be welcomed as contributors; the presence of Mr. D. D. L. Farson, secretary of the Penna. Horticultural Society, who made one of his entertaining speeches and invited the club to compete for the special \$100 vase offered for the best hundred blooms at



A TYPICAL BERMUDA HOUSE AND GARDEN.

the chrysanthemum show in Philadelphia; the difficulty encountered by the president in getting members to serve on committees, and a beautiful display of tuberous rooted begonia blooms, including some handsome fimbriated ones, from Mr. Thos. Griffin of Westbury Station, to whom a vote of thanks was passed. Messrs. J. N. May, Ernst Asmus and J. H. Taylor were appointed a committee to take charge of the exhibits intended for the Philadelphia competition and Messrs. C. B. Weathered, E. Asmus and J. H. Taylor were entrusted with the duty of arranging for the annual dinner of the club. Intending exhibitors at the Farmers' Club meeting are requested to communicate with Dr. F. M. Hexamer, 52 Lafayette Place, New York. Tables and other requisites will be furnished by the Farmers' Club.

The organization of the Growers' Club of Madison has been followed by the formation of another association composed mainly of the employes of the various Madison rose growing establishments, social enjoyment being the object. A meeting was held at Fagen's Hall on Thursday evening, 4th inst., and Mr. L. A. Noe was elected president. The Growers' Club has now 26 members. Only proprietors are eligible to membership.

The earliest chrysanthemums, those ready to cut October 10, at J. N. May's were Yellow Queen, Mrs. E. G. Hill, Miss Kate Brown and Sædling 031, a large full white. Close following these varieties will come Minerva, Ivory and Mayflower.

Mr. May's neighbor, C. H. Hagert, has added another rose house 125 feet long this season. The principal varieties grown here are Bridesmaid, Bride and Cusin, and they are all in fine condition. Mermet appears to have been almost entirely abandoned by growers in this section.

A cablegram announcing the sudden and serious illness of Mr. Thos. W. Weathered, who is in England at present, was received on the 6th inst. Mr. C. W. Weathered was making hasty preparations to start for England when later and more encouraging news came to hand.

Mr. Alfred Dimmock arrived on Sunday, October 7, per steamer Etruria after having experienced a very tempestuous voyage.

J. Stuhls & Co. have moved to a new store at 661 Fulton street, Brooklyn.

The auction sale of orchids from F. Sander & Co., at the rooms of Aug. Rolker & Sons on Friday, 19th inst., promises to be the most important sale ever held in this country. It will be a great opportunity for American orchid lovers.

Boston.

The annual exhibition of fruits and vegetables, which was held at Horticultural Hall on Wednesday and Thursday, October 3 and 4, was not quite as extensive as usual, a result of the dry season, undoubtedly, but the quality of the exhibits was very superior. The vegetable department occupied the lower hall, and

the fruits the upper hall. Cauliflower, celery, tomatoes and endive were noticeably fine. The display of grapes was very small indeed.

Mrs. J. W. Clark showed some good bunches of hothouse grapes, in several varieties. To her was awarded the David Allan prize for the best bunch of hothouse grapes of any variety, her exhibit being a fairly good bunch of Black Alicante. Mr. Allan was evidently disappointed because there were no other entries for this premium. If the schedule were changed so that the prizes for hothouse grapes should be competed for at the plant and flower exhibition, rather than at the fruit and vegetable exhibition, it would suit better those growers interested in this line. Indoor grapes are grown almost exclusively by those gardeners whose interests are most largely concerned in the plant exhibition. Very few of them are attracted to the fruit show, and hence it is that when a good bunch of grapes happens to be shown, it is seen by few of the grape enthusiasts.

A fine plant of *Allamanda Williamsii*, in a ten inch pot, and covered with bloom, was shown by Mr. N. T. Kidder.

The annual election of the Horticultural Society took place on Saturday, October 6. Among the exhibits on that day was a well bloomed plant of *Bougainvillea Sanderiana* shown by David Allan and a silver medal was awarded to it. This plant fully sustains the reputation claimed for it by its introducers and is destined to become popular. A silver medal was also

awarded to John L. Gardner for a new marbled form of *Cypripedium Charlesworthii*.

T. D. Hatfield showed three magnificent blooms of *chrysanthemum Mrs. E. G. Hill* from early crown buds. There has been an inclination to find fault with this variety, but those who saw these blooms must have been effectually silenced. It would be next to impossible to overpraise it. A certificate of merit was awarded and it was fully entitled to this honor.

The first meeting for the season, of the Gardeners' and Florists' Club of Boston, was held on Tuesday evening, October 2, and was attended by quite a fair number of members. The essay by Mr. Dawson on the forcing of hardy plants proved to be very interesting. In the discussion that followed, attention was called to the fact that of the stock sent out by nurserymen, of such plants as *Cypripedium spectabile*, *Trillium grandiflorum*, etc., a large percentage are too small to bloom. Mr. Jackson Dawson said that there was no excuse for this, excepting carelessness on the part of collectors, as flowering crowns of *Cypripedium spectabile* were almost as easy to identify as those of lily of the valley. Speaking of hardy stock for forcing purposes, he said further that with shrubs or plants potted or tubbed in the spring time, and cared for during the summer, twice as good results are obtained as where stock is lifted in the fall.

Much interest centered in the report made by Mr. P. Welch on behalf of the bowlers who went to Atlantic City. Mr. Welch said, "We went into this contest with the sole purpose of winning the first prize," and caused much merriment when he said further, that the gentlemen who bowled had deprived themselves of several good times, in order to be in proper condition for the game.

Messrs. Jackson Dawson, Geo. Sutherland, M. H. Norton, J. Wheeler and S. J. Coleman were appointed a committee to nominate officers for the ensuing year. Messrs. C. J. Dawson, Warren Ewell, Edward Hatch, T. W. Dee, and F. J. Walsh were appointed a committee to arrange for the usual *chrysanthemum* dinner, which will take place probably on the evening of either the first or second day of the *chrysanthemum* show. The next meeting of the club will be on Tuesday evening, October 30.

The cut flower trade is fair for the season. Carnations are scarce. *Chrysanthemums* are beginning to appear from all directions, Mme. Bergmann and Mlle. Lacroix being the first varieties to make their appearance. Mr. Thos. A. Cox is credited with having brought the first blooms of the season to market, he having cut Mlle. Lacroix on Tuesday, October 2.

A new wagon bearing the inscription "Sutherland, Florist" hitched to a stylish looking trailer is the most recent sensation in floral circles.

Visitors in town: Mr. J. Comont, representing Carter of London, Eng., and Mr. Jos. Rolker of New York.

Philadelphia.

The "mums" have arrived, October Beauty from Joseph Heacock being first on the 5th; Mme. Bergmann came next from Mr. Connor of Lansdowne on the 6th. The 9th was graced with the first yellow, *Gloriosum*, from Henry Standen, Bryn Mawr, while the same day John Curwen, Jr., of Villa Nova, cut some fine Kate Brown, a good white with a wealth

of rich dark green foliage right up to the flower. The quality of all the flowers so far has been very good, far better in fact than the demand, but as the season is just opening this is to be expected; when the houses are opened and warmed up and folks begin their city life then trade will start in earnest.

Roses of all kinds are improving and sell well for the season, Bridesmaid being the only exception; the color of this variety is too deep as yet and they are hardly up to the standard in size. Myers & Santman are carrying fine Brides and Meteors. Heacock has fine Kaiserins and Beauties. Anderson has good La France, Meteors and Kaiserin. Burton's Meteors have the call, as do also his Beauties; he is also the only grower who has Cusin in quantity. Smith & Whitely are cutting some good La France and Brides, Becker extra fine La France, while a score of smaller growers are about daily with a general variety of more or less excellence. Prices are about the same as last week, with a slight tendency to weakness, owing no doubt to an increased number of growers coming in. Some are still pinching off the buds, preferring to wait until the "mums" are on the wane before commencing to cut.

Carnations from this time on will be fine; many growers even now are sending in first-class flowers. Mr. Weaver of Ronks, Lancaster county, is at the head of the procession with Daybreaks; his are certainly fine. DeWitt of Torresdale has good Sweetbrier; this variety is to be seen in many a grower's basket, and shows up well; \$1.50 is now asked for the best; good ordinary flowers can still be had for \$1. Cosmos is now in and sells for 50 to 75 cents per hundred. Smilax seems scarce, the first time this year; maidenhair and asparagus seem to be pushing smilax to one side.

House plants are selling very well with the store men, and growers are commencing to feel the local city demand.

Speaking about plant sales, H. A. Dreer sold 500 *Adiantum Farleyense* in 5 and 6-inch pots to Mr. Vanderbilt of Aiken, S. C., in addition to a carload of other plants one day last week. This will clean the Philadelphia market pretty well of this beautiful fern, the only other stocks being held by Messrs. Charles and Lemuel Ball and Edwin Lonsdale.

The old song about the fakir and grower is being revived. One storekeeper on Eighth street has roses marked down to 25 and 30 cents per dozen, he having to meet the competition of an enterprising fakir hard by. None (?) of the Philadelphia growers sell to the fakirs, but they get plenty of the regular stock that is seen in the stores just the same and at one-fourth the prices. It is marvelous how far the fakir's money will go; probably it is because it is picked up on the street, and is like sour apples to the hungry man.

Albert Hoag, late with Heron & Nisbet will branch out for himself at 30 South 17th in a few days; this will make the fifth cut flower store in this block, two on Chestnut street and three on 17th. We wish him success.

Charles E. Mechan is laid up with the quins.

Mrs. Karl Miller of 67th and Elmwood Avenue died on the 5th inst. aged 70 years. Mrs. Miller has always been a hard worker; from 1870 to 1892 she carried on business in a basement at 11th and Chestnut, and from there removed to 8th below Walnut.

The market project is still slumbering but with some signs of waking up. K.

Toronto.

It is unfortunate that the Dominion government will persist in appointing Thanksgiving day so late, not but what it is quite possible to get a first rate *chrysanthemum* show in the third week of November, and not that it affects the attendance at all, but it means money lost to florists when the space the exhibition plants take up might have been filled up with something else, and then there is the extra time taken up in attending to them, which is no small consideration; however, I hear very little grumbling, everyone being agreed that it would be no use holding the show independent of Thanksgiving day until the association has some money to lose or until it can be made so attractive that the people will come to it holiday or no holiday. At present the great trouble is the uncertainty of the date until October; if we knew the show was going to be late, say in May, we might grow only late sorts. However, we are going to have a good show anyway. The prize lists will be published this week. Any one wishing for a copy can obtain one by dropping a card to A. H. Ewing, 85 Carlton street, Toronto. A great effort is going to be made this year to have the show ready for the judges on schedule time and it is to be hoped that all exhibitors will cooperate with the management in carrying this out, it would make things so much pleasanter all round and be a great relief to the secretary.

I think I may say now that business is brightening up a bit; at the market last Saturday although buyers did a good deal of haggling there appeared to be more of them, and they seemed to be more inclined to part with at least a little of their money for flowers and plants. The stores also report some improvement. Some very good roses and carnations are coming in now. Frosts have been very slight up to this date (8th) and as yet very little damage has been done in gardens even to the coleus, though of course everything is beginning to have an autumn look about it.

The city and the provincial governments are disputing about the grounds in front of the new Parliament buildings, who shall pay for it and how it shall be done; there is plenty of scope for a landscape gardener to show what he could do here and it is to be hoped that between the two governments something good may come. E.

St. Louis.

Trade still continues to improve, it being spasmodic, however; prices are gradually improving and tending upwards. With the advent of the earlier *chrysanthemums* it is expected they will fall slightly off; they can not fall much. The principal loss will be in the waste, and this will consist of the poorer quality of flowers.

The expected increase in trade on the day of the "Veiled Prophet's Ball" was about in the same proportion as last year; some stores reporting an increase, while others about as in former seasons; as a whole it may be stated as satisfactory. Beauties were easily in first demand, second choice going to Meteors. Long Beauties seem to be the rose called for in preference to any of the other varieties on almost all occasions where it is possible to use them. The Merchants Exchange Hall where the ball was held was not decorated as extensively as in former years; the fountain in the center of the hall was the principal object dec-

orated. It consists of four basins elevated one above the other and gradually growing smaller towards the top; the rims of these basins were lined with foliage plants, palms and others, lying on their sides and projecting over the basins below, while from the edges curtains of wild smilax trailed to the water beneath. On these screens of smilax were worked various flowers, the upper ones being partly covered with roses, carnations and other smaller flowers, while towards the base heavier flowers were used, such as dahlia and cannas. Immediately under each basin and inside the screens of smilax were circles of incandescent lamps which lightened up the whole and added immensely to the effect. The musicians were screened as usual with palms, ficus and other plants. The decoration was by the Chandler Floral Co.

The thirty-fourth annual fair of the St. Louis Agricultural and Mechanical Association was held during the past week; they offered \$409 in premiums for plants and flowers, divided as follows: Plants, \$258; cut flowers, \$78; cut flowers, amateurs only, \$68. The plant premiums were about evenly divided between the C. Young & Son Co. and the Michel Plant and Bulb Co., while the C. Young & Son Co. captured all the firsts in the cut flower displays.

The fifth annual banquet to the florists, nurserymen and gardeners, provided for in the will of Henry Shaw, founder of the Missouri Botanical Gardens, will take place on the 5th of November at the Mercantile Club, it being the night previous to the opening of the annual chrysanthemum show, and will doubtless be in keeping with its predecessors and afford all attending an agreeable and pleasant evening.

Mr. A. Y. Ellison is out on the road again, meeting with excellent success; at last accounts he was rounding up Texas.

The first frost of the season prevailed on the night of the 8th, cutting everything tender down to the ground; in some localities the mercury dropped as low as 22°, this being exceptionally heavy for the first one of the season. The frost brought chrysanthemums, or the "mums" brought the frost; for the next morning several consignments were received from the south consisting of Kate Brown and Gloriosum; they were fair outdoor grown stock and sold for 6 cents. R. F. T.

Chicago.

The supply this week has shortened up considerably and in consequence prices have somewhat stiffened. White is particularly scarce. In roses Kaiserin and Brides of first quality have advanced to \$4; Testout and Meteor \$3 to \$4. Bridesmaids hold firm at 3, while Perles, Merrets and Woottons go at 2 to 2.50. Beauties are stationary at \$2 a dozen for extra long, and \$1.50 for medium; in quality Beauties are good, but the smaller varieties of roses are only fair to medium. Carnations are much improved and in good demand; first quality disbudded stock sells readily at \$1.50. In this class may be noted some very good Sweetbrier, Daybreak, Nancy Hanks and Lizzie McGowan. In whites all fairly good stock goes at top prices, while Tidal Wave, which is rather short stemmed as yet, Portia and Grace Wilder sell at 1 to 1.25.

The first shipment of "mums" in any quantity was received Monday. These were Mrs. E. G. Hill, of fair quality, which brought 2.50 a dozen. This is the only local grown variety which has made

its appearance so far. From the south shipments are now received daily by several commission men. The first lot consisted of Mme. Bergmann, which are rather poor, being cut too green; these sell at \$1. Towards the latter part of the week several lots of Kate Brown showed up fairly good; these bring from 1.50 to 2. In yellow Mrs. Whildin of fair quality bring \$2. All these are grown in the open air on disbudded bush plants, the foliage being rather poor.

The obsequies of the late Prof. Swing, which were held last Sunday at Central Music Hall, brought out a magnificent display of flowers. The most notable feature of the decorations was the lavish use of Beauties and orchids. A garland draped around the bier on which the casket rested was composed of 150 very fine cattleyas; the arrangement was very striking. A vase of superb Beauties, a hundred or more with stems 3 feet long, was also very fine.

Messrs. Bassett and Washburn have just returned from a flying trip to Richmond and Indianapolis full of enthusiastic praise of the hospitable manner in which they were treated by the brethren in both cities. "We wanted to see," says Mr. Washburn, "what the boys are doing in 'mums' this year. Well, Mr. Hill's at Richmond are simply grand. I never saw a finer lot of 'mums,' and as to his carnation houses, all I can say is that I wish we owned them ourselves. Bertermann's establishment at Indianapolis also looks splendid. His 'mums' are bound to be an important factor in the coming exhibitions."

Messrs. Freytag and Foster of Milwaukee were recent visitors.

The revised premium list for the chrysanthemum show has been mailed. Anyone interested, and who did not receive a copy, may have one by addressing a request to the secretary, Mr. W. C. Egan, 350 Monon Building.



Chrysanthemum Notes.

The blooms are now showing color and the earlier varieties beginning to unfold, and before many days the result of the last few months labor will be before you. If the plants are clean and free from aphid stop fumigating heavily and only give them a light smoking when it appears to be necessary, but don't neglect it altogether, or wait until the little pest gets thoroughly grown or settled, for if you do it will again be necessary to resort to heavy fumigating, which is very apt to injure the blooms. A light smoking once a week ought to keep them in check.

Begin to let upon strong liquid manure on the plants on which the blooms are beginning to expand, and stop all feeding with nitrates. The plants that are not yet showing color will still need to be watered with liquid manure as has been the custom, and continue until the petals begin to unfold. Give all the plants except the red varieties a little sulphate of ammonia occasionally, remembering always to make the solution weak.

It is time now to watch the ventilation and when the heat is not turned on close

all the ventilation at sunset, but it is better to turn on a little heat and open the ventilators a little, and keep the temperature in the neighborhood of 50°. This will just suit them and the buds will swell larger, while a warmer temperature will make them push out too fast, and the center petals will not attain their full length, making a bloom not nearly as deep as one grown a little cooler.

Do not continue syringing the top of the plants any longer, but wetting down the foliage a little while watering will not do any harm and will keep the leaves clean and fresh looking. Overhead syringing is very apt to injure the blooms after they begin to open. Keep a sharp eye out for all blooms that are close to the glass and keep them away as much as possible, for if they touch the glass after the petals are open they will get discolored and the bloom is ruined. Watch the plants constantly, and under no conditions allow them to become dry or wilt, for that would be fatal to good flowers at this stage of their growth. Note any change that may come over the plants and buds; those that are keeping notes will find plenty to dot down in their books, the dates of buds and numerous other small items that will come in very handy in future years. Let close attention to everything be the watchword.

ELIJAH A. WOOD.

Washington Gleanings.

Pennsylvania avenue, east from Eleventh street to Eastern Branch, is planted with the most picturesque of American oaks, *Quercus palustris*, most of the trees having been obtained from seed of a tree planted by Mr. Smith years ago in the Botanical Garden. They have been five years planted and are now very handsome, having kept fresh and green all season notwithstanding the drouth. It is to be regretted that the avenue was not planted continuously right up to the Capitol with this species. Red oaks and a mixture of other things constitute the balance of the planting.

The superb grouping in the Capitol grounds is a convincing testimonial to Mr. Olmsted's genius. The shrubbery and trees are grandly grouped and judiciously pruned and brought into shape. Variations of the old English hawthorn have been used very successfully. The magnolia group comprising *macrophylla* and several varieties of *grandiflora* is much admired. Many of the trees suffered considerably from the dry weather. The purple leaved and purple stemmed *Acer Pseudo-platanus* was especially affected. An English walnut 35 feet high, a very handsome specimen near the east front of the Capitol, was raised by Mr. Smith from seed in a flower pot.

Koelreuteria paniculata forms a magnificent round-topped small tree that associates well with formal architecture. It bears beautiful yellow flowers followed by conspicuous and handsome fruit that lasts well up to midwinter, and no insects seem to trouble it. It ought to be more generally planted. Perhaps its terrible name has helped to retard its dissemination.

Bignonia Chamberlaynii with lovely primrose yellow flowers bloomed twice this summer. It covers the rafters in one of the greenhouses at the Botanic Garden and its beautiful festoons were greatly admired. Why do we not see it oftener?

The "Goddess of the Dancing Grove" (*Dianella*) is one of the best house plants in the country. Authority, W. R. Smith.

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Coming Exhibitions.

WAYNE, PA., Oct. 30-31. Fall exhibition Wayne
Hort. Society. John G. Gardner, Supt., Villa
Nova, Pa.SAN FRANCISCO, Nov. 1-3. Chrysanthemum
show California State Floral Society. Mrs.
T. L. Walker, Sec'y, 2549 Piedmont Ave., Oak-
land, Cal.CHICAGO, Nov. 3-11. Chrysanthemum show Hort.
Society of Chicago. W. C. Egan, Sec'y, 620
Dearborn Ave.BALTIMORE, Nov. 5-10. Chrysanthemum show
Gardeners' Club of Baltimore. Wm. Feast,
Sec'y, 228 N. Charles St.NEWPORT, R. I., Nov. 6-8. Chrysanthemum show
Newport Hort. Society. Alex MacLellan,
Sec'y, Ruggles Ave.BOSTON, Nov. 6-9. Chrysanthemum show Mass.
Hort. Society. Robt. Manning, Sec'y, Horti-
cultural Hall.PITTSFIELD, MASS., Nov. 6-9. Chrysanthemum
show Berkshire County Gardeners' and Flo-
rists' Club. W. M. Edwards, Sec'y, 103
Howard St., Pittsfield.ST. LOUIS, MO., Nov. 6-9. Chrysanthemum show
St. Louis Florists' Club. E. Schray, Sec'y,
4101 Pennsylvania Ave.INDIANAPOLIS, IND., Nov. 6-10. Chrysanthemum
show Society of Indiana Florists. W. G. Ber-
termann, Sec'y, 37 Massachusetts Ave.PHILADELPHIA, PA., Nov. 6-10. Chrysanthemum
show Pennsylvania Hort. Society. D. D. L.
Farson, Sec'y, Horticultural Hall, Broad St.LOUISVILLE, KY., Nov. 6-10. Chrysanthemum
show Louisville Florists. H. Nanz, Sec'y, 582
Fourth Ave.FREDERICK CITY, Md., Nov. 7-9. Chrysanthemum
show Frederick County Floricultural
Society. C. E. Kemp, Sec'y.DENVER, COLO., Nov. 7-10. Chrysanthemum show
Denver Florists' Club. Adam Kohankie, Sec'y,
L.B. 375, So. Denver, Colo.PROVIDENCE, R. I., Nov. 8-10. Chrysanthemum
show Rhode Island Hort. Society. C. W.
Smith, Sec'y, 61 Westminster St.MONTREAL, Nov. 12-14. Chrysanthemum show
Montreal Gardeners' and Florists' Club. Fred
Bennett, Sec'y, 62 Aylmer St.WORCESTER, MASS., Nov. 13-15. Chrysanthemum
show Worcester County Hort. Society. Edw.
W. Lincoln, Sec'y.SPRINGFIELD, MASS., Nov. 13-15. Chrysanthemum
show Hampden County Hort. Society. W. F.
Gale, Sec'y, 23 John St.MILWAUKEE, WIS., Nov. 13-16. Chrysanthemum
show Milwaukee Florists' Club. A. Klokner,
Sec'y, 219 Grand Ave.MOBILE, ALA., Nov. 15-17. Chrysanthemum show
Mobile Chrysanthemum Club. Miss Mollie
Irwin, Sec'y.TORONTO, ONT., Nov. 20-23. Chrysanthemum show
Toronto Gardeners' and Florists' Ass'n. A. H.
Ewing, Sec'y, 85 Carlton St.HAMILTON, ONT., Nov. —. Chrysanthemum
show Hamilton Agric. Society. Walter H.
Bruce, Sec'y.

WE HAVE RECEIVED from Mr. A. W. Smith, Americus, Ga., sprays of variegated Euphorbia (*Poinsettia pulcherrima*). The variegation is extremely distinct, being bright yellow, and well diffused over the leaves. The scarlet bracts surrounding the flowers, however, which usually make this variety so showy, were sparse and small, seeming to have reverted to variegated leaves. It is likely that this variegated form would make a showy thing for subtropical bedding, if the coloring is constant under exposure.

EARLY CHRYSANTHEMUMS recently received by us from Mr. E. N. Zetlitz, foreman to Lewis Ullrich, Tiffin, O., included large specimens of Harry Balsley, Mrs. Whilldin and Ivory, as well as some later

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We are Headquarters for **AMERICAN BEAUTIES**, as we grow 30,000 plants of this variety alone of the best quality. Also large quantities of **Brides, Bridesmaids, Albany, La France, Perles Woottons and Meteors.**

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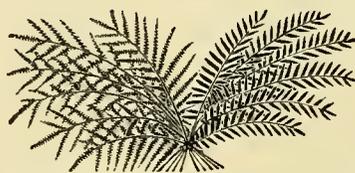
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BOUQUET GREEN,

Laurel and Green Festooning, Wreaths, Etc.

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FLORAL DESIGNS

The Cut Flower Worker's Friend. Fine book of 160 pages. Send \$3.50 for it, to
J. HORACE McFARLAND, Harrisburg, Pa.

varieties less developed. The flowers were very large, with heavy foliage and stiff stems, some buds of Kioto showing a stiffness rarely seen in this variety. The only disadvantage suggested is that the foliage may be developed at the expense of the flower.

THE NURSERYMAN AND SEEDSMAN is the title of a new weekly trade journal printed in London by Brian Wynne. It starts out with a circulation of five thousand, confined exclusively to approved parties in the trade.

WE HAVE RECEIVED the initial copy of *The Landscape Architect*, a new monthly devoted to the specialty its name implies. It is a handsome paper, illustrated with fine half tones. Vista Publishing Co., Rochester, N. Y.

DO YOU WANT a list of the leading park superintendents of America? You will find such a list in our trade directory and reference book for 1894. Price \$2.00.

YOU CAN'T AFFORD to do business without a copy of our trade directory and reference book.



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Our Roses best them all, in quality.
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 Consignments solicited. **CHICAGO.**

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OTHER SPECIALTIES:
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Always mention the American Florist when writing to advertisers.

Wholesale Markets.

Cut Flowers.	
NEW YORK, Oct. 9.	
Roses, average stock.....	1.00@ 3.00
" Beauty.....	1.00@ 5.00
" " Fine selected.....	10.00@20.00
" Meteor, Testout.....	2.00@ 4.00
" Kaiserin.....	2.00@ 5.00
Carnations, colored.....	50@ 1.50
Chrysanthemums.....	15.00@35.00
" finest blooms.....	1.00@ 2.00
Valley.....	4.00
Gladlioll.....	1.00
Smilax.....	8.00@10.00
Asparagus.....	25.00@35.00
Adiantum.....	.75@ 1.00
BOSTON, Oct. 9.	
Roses.....	1.00@ 3.00
" Beauty.....	6.00@25.00
Carnations.....	1.00@ 1.50
Asters.....	50@ 1.00
Valley.....	3.00@ 4.00
Tuberose.....	.50@ .75
Chrysanthemums.....	25.00@35.00
Adiantum.....	.75@ 1.00
Smilax.....	12.00@15.00
Asparagus.....	50.00
PHILADELPHIA, Oct. 9.	
Roses, small.....	2.00
" large teas.....	3.00@ 4.00
" Beauties.....	8.00@12.00
Carnations.....	1.00@ 1.50
Valley.....	4.00
Smilax.....	15.00@20.00
Asparagus.....	35.00@50.00
Gladliola, per 100 stalks.....	2.00
Tuberose.....	3.00
Violets (single), 100 bunches.....	\$3.00
Cattleya.....	35.00@40.00
Cosmos.....	.50@ .75
Adiantum.....	.75@ 1.00
CHICAGO, Oct. 11.	
Roses, Brides, Kaiserin.....	4.00
" Testout, Meteor.....	3.00@ 4.00
" Bridesmaids.....	5.00
" Perles, Mermets, Wootton.....	2.00@ 2.50
" Beauty.....	12.00@15.00
Carnations.....	1.00@ 1.50
Chrysanthemum Mrs. E. G. Hill, \$2.50 doz.....	8.00@15.00
" commoo.....	6.00@ 8.00
Auratum lilies.....	.50
Asters.....	.10@ .30
Sweet Peas.....	.10@ .30
ST. LOUIS, Oct. 9.	
Roses, Perles, Wootton.....	2.00@ 3.00
" Bride, Mermets, Albany, La France.....	3.00@ 4.00
" Kaiserin.....	4.00@ 5.00
" Bridesmaid, Meteor.....	3.00@ 4.00
" Beauty.....	5.00@20.00
Smilax.....	15.00@18.00
Violets, single, per 100.....	.25c
Carnations, long.....	1.00
" short.....	.50
Ferns, fancy, per 100.....	\$1.75
CINCINNATI, Oct. 9.	
Roses, Perles.....	3.00
" Kaiserin, Mermets.....	4.00
" Bride, Bridesmaid.....	4.00
" La France, Meteor.....	5.00
" Wootton.....	15.00
" Beauty, Belle.....	.50@ 1.00
Carnations.....	.50
Tuberose.....	.50
Valley.....	4.00
Smilax.....	15.00
Adiantum.....	1.00
BUFFALO, Oct. 10.	
Roses, Beauties.....	10.00@15.00
" Mermets, Bride, Kaiserin.....	4.00@ 5.00
" Perles, Gontier, Hoste.....	3.00@ 4.00
" Meteor, La France.....	5.00@ 6.00
Carnations, long.....	1.00@ 1.25
" short.....	.50@ .75
Valley.....	4.00
Violets.....	.75
Dahlia.....	1.50
Adiantum.....	1.25
Smilax.....	10.00@20.00
Asparagus.....	50.00

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 67 Bromfield St., BOSTON, MASS.
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 METS, BRIDES, GON TIERS, CARNATIONS, ALWAYS ON HAND.
 1 Music Hall Place, BOSTON, MASS.
 HORTICULTURAL AUCTIONEERS.

THE LEADING FAVORITES:
American Beauty,
Bridesmaid,
Meteor,
Testout,
 And all other desirable roses, grown especially for first-class trade.

BURNS & RAYNOR,
 Wholesale Florists,
49 West 28th St., NEW YORK.

SPRING, SUMMER,
AUTUMN, WINTER.
 In dull season and busy season.
 All the year round.

Roses, Lily of the Valley
 and all other choice stock can be obtained of

THOS. YOUNG, Jr.,
 20 West 24th St., NEW YORK.

WALTER F. SHERIDAN,
 WHOLESALE
FLORIST,
 32 West 30th Street, NEW YORK.

Roses Shipped to all points. Price list on application.

Edward C. Horan,
 34 W. 29th Street, NEW YORK,
WHOLESALE • FLORIST.

Careful Shipping to all parts of the country.
 Price list on application.

FRANK D. HUNTER,
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CUT • FLOWERS,
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JOHN YOUNG,
FINE ROSES
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 53 West 30th St., NEW YORK.

FRANK MILLANG,
WHOLESALE FLORIST
 408 East 34th Street,
 Cut Flower Exchange, NEW YORK.
 ESTABLISHED 1884.

THEO. ROEHR'S,
 WHOLESALE
FLORIST,
 111 WEST 30TH STREET,
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 Established 1879. . . .

The Seed Trade.

AM. SEED TRADE ASSOCIATION.

D. I. BUSHNELL, St. Louis, president; S. E. BRIGGS Toronto, 1st vice-president; A. L. DON, 114 Chambers street, New York, secretary and treasurer.

VISITED CHICAGO: H. A. Johns, R. H. Shumway, Mel. L. Webster.

S. H. CHURCH has established a seed business at Evansville, Ind.

MESSRS. N. B. G. Co. report that Mr. W. J. Troy has left them under a cloud.

SOME of those early seedsmen are nearly ready to go to press with their vegetable forms.

BOSTON—Mr. Eugene Schaettel of Paris, representing Vilmorin Andrieux & Co. spent a few days last week in Boston.

THE pea and bean situation is reported to have changed of late, Michigan and Wisconsin crops turning out even shorter than estimated September 1.

THE preliminary price-list of Robert Buist, Philadelphia, dated October 1, quotes Large Red Wetbersfield onions at \$1.00, Yellow Globe Danvers at \$1.15.

St. Paul, Minn.

Part of the week has been dark, damp and dismal, the only bad weather we have had in months. Firing early and late has been the order and some days fire has been needed all the time, as no gleam of sunshine has found its way through the dense clouds. Notwithstanding the general tendency to cold we have not at this writing, October 10, had a general killing frost. Potato and tomato vines are as green as in the summer, many trees still retain their leaves. Cannas are still blooming outside while pinks and petunias are as fresh in the garden as in midsummer.

We are pleased to note a general improvement in trade all along the line. There is a good demand for all roses, but more especially for Beauties and Bridesmaids. Testout is another good seller, while Mrs. Whitney—well, we wish there were more of them, they are superb. Carnations are in strong demand but few if any first-class blooms are being offered. Violets are not yet in the market though frequently called for. Chrysanthemums have not yet shown themselves. L. L. May & Co. have some Monarch showing color that will be in bloom by the last of the week.

The next meeting of the State Florists' Association will be held at the West Hotel, Minneapolis, October 13. We hope there will be a full meeting, harmonious action and plans perfected for closer union and work during the coming winter.

As this is the season for bedding out tulips, hyacinths, crocus and other bulbs for early spring blooming we are surprised to see none of the florists looking after that line of the trade here. With a little persuasion many of our finest lawns might be adorned with gorgeous, showy flowers from the time snow leaves the ground until summer flowering plants come into bloom. With the present low price of bulbs the cost to the purchaser would be small, the city would be beautified and there would be a good margin of profit to the florist for his time and labor.

Two new flower stores are to be opened here soon. C. I. Warren of the Warren-dale Greenhouses will occupy one on St. Peter street near Fifth. This is a fine

location, in the midst of the best retail section of the city and should be profitable to the proprietor.

L. L. May & Co. will move into new quarters at 25 West Fifth street. They will move their entire seed and floral business here, occupying four floors of the large and commodious block. Their seed business has been conducted heretofore on Como avenue some distance from the heart of the city. As they have quite outgrown their present quarters the move will be advantageous in many respects.

Cary I. Warren is again aspiring to political honors, having been nominated for state senator on the Democratic ticket. There seems to be quite an affinity between flowers and politics.

S. B. Dicks, of Cooper, Taber & Co., was a visitor during the week.

FELIX.

Catalogues Received.

Schlegel & Fottler, Boston, bulbs; Peter Lambert, Trier, Germany, roses; J. A. Simmers, Toronto, Ont., bulbs; Russell Bros., Highlands, N. C., native plants; T. V. Munson, Denison, Texas, nursery stock; Lyon & Cobbe, Los Angeles, Cal., plants; J. M. McCullough's Son, bulbs; H. P. Kelsey, Kawana, N. C., trees, shrubs and plants; Charles Vuylsteke, Loochristi, Ghent, Belgium, plants; Griffith, Turner & Co., Baltimore, bulbs and seeds; Jno. R. & A. Murdoch, Pittsburg, Pa., bulbs; J. D. Zocher & Voorhelm Schneevogt, Sassenheim, Holland, bulbs; Weber & Don, New York, bulbs and seeds; Hoopes, Brother & Thomas, West Chester, Pa., nursery stock; Pitcher & Manda, Short Hills, N. J., bulbs, seeds and plants; J. H. H. Boyd & Bro., Cagle, Tenn., tree and shrub seeds; Vick & Hill, Rochester, N. Y., bulbs and plants; H. H. Berger & Co., San Francisco, Japanese bulbs, plants, seeds, etc.; Ermano Bredemeier, Pallanza, Italy, bulbs and seeds; Haage & Schmidt, Erfurt, Germany, bulbs; J. M. Thornburn & Co., New York, bulbs; Henry F. Michell, Philadelphia, bulbs and seeds; W. Atlee Burpee & Co., Philadelphia, bulbs and seed; Reasoner Bros., Oneco, Fla., plants and nursery stock; F. A. Miller, San Francisco, bulbs, seeds and plants; A. Q. Wolf & Bro., Dayton, O., automatic ventilator, soil pulverizer and adjustable wheelbarrows; W. A. Manda, South Orange, N. J., bulbs, seeds and plants; P. J. Berckmans, Augusta, Ga., plants and nursery stock; l'Horticulture Internationale, Brussels, Belgium, orchids; E. H. Krelage & Son, Haarlem, Holland, bulbs; Luther Burbank, Santa Rosa, Cal., novelties in fruits and flowers; Siebrecht & Wadley, New Rochelle, N. Y., plants, bulbs and seeds; Batavia Label & Box Co., Batavia, Ill., tree and plant labels; D. M. Ferry & Co., Detroit, Mich., bulbs and seeds; Andre Leroy, Angers, France, trees and shrubs; Albert Rigouts, successor to Edmund van Copenolle, Meirelheke-Ghent, Belgium, plants; Alexis Dalliere, Ghent, Belgium, plants and bulbs; John Gardiner & Co., Philadelphia, bulbs and seeds; D. Landreth & Sons, Philadelphia, Dutch bulbs; Peter Henderson & Co., New York, bulbs, plants and seeds.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant ads. not admitted under this head.

SITUATION WANTED—By young man, age 24, as greenhouse hand; steady and sober; not afraid to work. G. SPENCER, Knoxville, Tenn.

SITUATION WANTED—At once, by two young florists; German; with good experience. Address ADOLF STARK, Jacksonville, Fla.

SITUATION WANTED—By young man, age 27, in seed trade. Good experience. Address F. BODLEY, 15 Greenwich Ave., New York City.

SITUATION WANTED—By first-class vegetable grower, winter forcing in greenhouse and hotbeds; and florist. Best references. Address L. DUPUY, Whitestone, Long Island, N. Y.

SITUATION WANTED—By young man of 20, as assistant in seed store; had 5 years' experience in greenhouses; willing to work. Good references. Address Box 34, Highlandville, Mass.

SITUATION WANTED—As assistant, greenhouse or store work; can take charge; experienced, reliable, abstainer; good salesman. References. Address E P P, care American Florist.

SITUATION WANTED—By young man, 23 years old, as assistant in private or commercial place; wages small to commence with; is well recommended. Address J. PRIDEAUX, Bar Harbor, Me.

SITUATION WANTED—By competent florist and gardener; American; married man; temperate. Good references. Commercial or private. J. S. ROCKWELL, 534 North Ave., Bridgeport, Conn.

SITUATION WANTED—By German florist; has been 12 years in business; 15 months in this country. Low wages for steady employment. First-class references. Address B SCHELLER, Jarhalo, Leavenworth Co. Kan.

SITUATION WANTED—By young man; 9 years' experience in greenhouse work; good propagator and grower of general stock, roses, carnations, etc. Reliable, sober, and not afraid to work. A1 references. Address B, care American Florist.

SITUATION WANTED—As manager or foreman; a practical grower of roses, carnations, violets, decorative and bedding plants, the forcing of all kinds of bulbs. A life experience. Good references. FLORIST, 233 E. 43rd St. Chicago.

SITUATION WANTED—In florist or seed business by an energetic young, experienced Dutch bulb grower. French, German and English correspondent; also good salesman. Not afraid of any work. First-class references. PARTICULARS, care Am. Florist.

SITUATION WANTED—After Oct 15th, as foreman on commercial place of 25,000 or more feet of glass, where roses are made a specialty. References: N. F. McCarthy, 1 Music Hall Place, Boston; or A. Montgomery, care E. M. Wood & Co., New York.

SITUATION WANTED—By young man of 24; English; is open for engagement by Nov 15th; 8 years' experience in first-class nurseries and private places. Prefer charge of gentleman's place. All round inside and outside man; 2 years reference from present employer (private gentleman). Would take commercial place. Expert budder and grafter on fruit and ornamentals, inside propagation and cut flower trade. Good at landscape work. Address ENGLISHMAN, American Florist, Chicago.

WANTED—A young German florist for general greenhouse work. State wages. Address ED. KIRCHNER, Winona, Minn.

WANTED—Tuberose growers and dealers please send price lists to address J P, Wayland St., San Francisco, Cal.

WANTED—Florist to take charge of small greenhouse, few miles out, north shore. Inquire of CLARKE, Room 849, 358 Dearborn St., Chicago.

WANTED—To buy from \$50 to 1500 feet of 4-inch hot water pipe—second-hand. Address at once, H. V. SOWLE, 325 Coffin Ave., New Bedford, Mass.

WANTED PARTNER—With couple hundred dollars—Indy preferred; or I will sell out for \$600. Good business; first-class location. Apply or write J. A. LESNER, 73 Rush St., Chicago.

WANTED—At once, an industrious young man for general greenhouse and nursery work; steady employment. Wages \$2.00 per month and board. Address H. KADEN, Gainesville, Texas.

TO EXCHANGE—I would like to exchange 350 Jack roses, from 4-inch pots, for 350 good white carnations. B. J. PASSMORE, Narberth, Pa.

FOR SALE CHEAP—Large second-hand florist's Ice Box, value about \$75. VAUGHAN'S SEED STORE, 88 State Street, Chicago.

FOR SALE—A Weathered hot water boiler No. 5 in good condition, only \$50.00 I. L. PILLSBURY, Galesburg, Ill.

FOR SALE CHEAP—Large, new hard wood and glass florists Refrigerator. Used at World's Fair. Price reduced to \$175. VAUGHAN'S SEED STORE, 146 & 148 West Washington St., Chicago.

TO WHOM IT MAY CONCERN:

The firm of UHLMANN & HAISCH, of Memphis, Tenn., has been dissolved by mutual consent, and is succeeded by E. UHLMANN, who will carry on the business of florist in all its branches, and who will endeavor to maintain the enviable reputation gained by the late firm for high artistic work, and for elegance and promptness in the execution of all orders.

CARNATIONS AND VIOLETS.

Marie Louise, strong, healthy, large clumps, \$6.00 per 100; \$55.00 per 1000.

The standard varieties of CARNATIONS, \$6.00 per 100; \$60.00 per 1000.

LOUIS A. GUILLAUME, East Onondaga, N. Y.

JUST RECEIVED FROM JAPAN, 250 CASES LILIUM LONGIFLORUM

Per S. S. "SIKH."

Large, fine bulbs, 7-9 inches in circumference. Bulbs potted during October will bloom at Easter. We offer in case lots at \$10.00 Per Case of 200 Bulbs; \$40.00 Per 1000.

Warranted sound and in perfect condition. 75 per cent. single crowns.

Orders for **AZALEAS** should be placed at once to obtain advantage of **IMPORT PRICES.**

We have a limited amount yet to offer, and can supply on arrival, in case lots of 50 plants each, in three sizes as follows.

October shipments are perfectly safe by fast freight.

Order while it is safe to ship by freight, and save express charges.

Finest assortment, including Vervaeneana, Deutsche Perle, Mme. Van der Cruyssen, Emperor of Brazil, Bernhard Andreas alba, and Empress of India.

AZALEAS, heads	9-12 inches in diameter.....	\$17.50
"	10-12 " "	22.50
"	12-15 " "	30.00

f. o. b. cars or boat New York City.

For want of room in which to house, we offer as long as stock can remain outside

20,000 DRACAENA INDIVISA.

Strong field-grown plants, \$10 per 100; \$75 per 1000.

This stock at this price is a bargain. Will require 5-inch pots at once, and will be worth in spring \$25 to \$50 per 100 at wholesale. An advantageous offer for anyone having room to spare.

CARNATIONS, Field-Grown.

NEW AND CHOICE SORTS ONLY.

Mme Diaz Albertini, Wm. Scott, Jacqueminot, Daybreak, Buttercup, strong clumps in fine shape.

ENGLISH IVY, strong field-grown plants, etc., etc., etc.

WRITE FOR TRADE LISTS. Address

F. R. PIERSON CO., Tarrytown-on-Hudson, N. Y.

New Greenhouses.

ANACOSTIA, D. C.—Gude Bros., 3 houses each 200 feet long.

UTICA, N. Y.—Peter Crowe, 2 houses each 140 feet long.

CHESTER, PA.—Thos. Delahunt, 1 house 60x18 feet.

PHILADELPHIA, PA.—John Hackett, 6 houses.

CLIFTON, N. J.—Geo. Young, 2 rose houses.

BELFAST, MAINE.—W. E. Hamilton, conservatory.

MILLERSBURG, PA.—Rathvon & Hinkle, 1 house.

SO. YARMOUTH, MASS.—A. N. Brooks, 1 house.

A Bewildered Sunflower.

Sir Robert Ball tells an amusing anecdote illustrating Moore's words, "The sunflower turns to her god when he sets the same look that she turned when he rose." An explorer, he said, intent on proving the truth or otherwise of this theory, took out a sunflower seed to the Arctic regions and planted it there. In the course of time the plant came up and flowered vigorously—just, however, at the season when the sun never sets in the Arctic circle; so the poor sunflower, true to its nature, followed the process of the sun, expecting it to disappear at night in the ordinary course, but as the sun did not set at all, the flower strained itself round and round until it twisted its own head off.—*McKeesport Herald.*

THE AMERICAN FLORIST (\$1.00) and *Gardening* (\$2.00) together to one address for one year for \$2.50. Send orders to American Florist Co.

For

VILMORIN'S ELECTROS

Address

AUG. RHOTERT, 26 Barclay Street, NEW YORK.

Catalogues free on application.

NOVELTY LIST NOW READY.

BULBS. BULBS. BULBS.

In lots of 200 in one or of several sorts we furnish **DELIVERY INCLUDED,** and **sound Bulbs** guaranteed on arrival.

	AURATUM, 7-9. per 100, \$4.00
"	9-11 " " 5.50
"	11-12 " " 8.00
SPECIOSUM Rubrum, 8-9 " " 5.00	
"	9-11 " " 8.00
"	11-13 " " 9.00
"	Album, 8-9 " " 8.00
"	9-11 " " 10.00
LIL. LONGIFLORUM, 7-9 " " 4.00	
"	8-10 " " 5.00

ORDER AT ONCE. Orders now booked for *Cycas revoluta* stems. Delivery February to May. Send for our new Catalogue. Interesting and novel.

H. H. BERGER & CO., (Established 1878.) SAN FRANCISCO, CAL.

READY NOW.

Black Calla Bulbs

Extra size, \$10.00 per 100.

CASH WITH ORDER.

CHAS. SCHWAKE, 404 E. 34th Street, NEW YORK.

The Water Garden.

Special and Hardy Water Lilies of all colors.

VICTORIA REGIA AND V. RANDI. EURYALE FEROX.

Nelumbiums in variety, Hardy Ornamental plants, sub-aquatic plants, etc., etc. Nymphaea Laydekeri rosea (awarded a Medal at World's Fair); most charming of all the HARDY LILIES; \$2.50 each.

Other Columbian Novelties see catalogue.

WM. TRICKER & CO., Clifton, N. J.

WE SELL BULBS

Special low prices to

Florists & Dealers.

WEEBER & DON,

Seed Merchants and Growers.

114 Chambers Street, NEW YORK.

BULBS ... IN ... Wholesale Quantity.

Tulips, Narcissus, Crocus, Liliun Harrisii, Longiflorum, Paper White Narcissus, etc.

C. H. JOOSTEN, Importer, 3 Coenties Slip, NEW YORK.

BULBS.

Hulsebosch Bros.

ENGLEWOOD, N. J.

SELL ALL KINDS CHEAP.

Lily of the Valley.

First quality for forcing, November delivery. Strong pips, \$5 per 1000. Cash with order.

H. WREDE, Luneberg, Germany.

Notes From Dreer's.

Tobacco water from leaf tobacco is the only insecticide used here on palms. The proportion is ten pounds of tobacco to one barrel (45 gallons) of water. It will go more than twice as far as the same quantity of stems, probably because the leaves contain more nicotine. Stems are often found to have been treated with chemicals which is another argument against their use. Damaged leaves can generally be procured for a small price. The above mixture is made up in the afternoon and used the following morning. It is essential to use it fresh, as after 24 hours fermentation sets in and it is then innocuous.

Pans for fern seed are not used any more at Riverton. Pots are considered better. Where there is damping off the loss is not so great. At one time this season there were 246,000 ferns in pots in frames outside. Next to Adiantum cuneatum the greatest run this season has been on Davallia stricta.

Hemerocallis Kwanso (flore pleno) variegata while very pretty with its variegated foliage proves to be inconstant.

The demand for manettia vine seems to be falling off, while that for the moon flower holds on. Manettia cordifolia is regarded as better than M. bicolor for summer use.

Express Rates.

PLANTS—Completely boxed and packed so they may be handled without extra care 20% less than merchandise rate.

The above rate is made by the following Express Companies: Adams, American, National, Northern Pacific, Pacific, Southern, United States, Wells, Fargo & Co.

But the special rate should be asked for. Otherwise freight may be billed at full rates.

DO YOU WANT a list of trade organizations, both national and local, with names and addresses of principal officers, time and place of meetings and other information? You will find such a list in our trade directory and reference book for 1894. Price \$2.00.

ROSES AND CARNATIONS

For Winter Bloom.

MERMETS, BRIDES, BEAUTIES, PERLES, WATTEVILLE, METEOR, and WABAN.

Clean, healthy stock, from 3½-inch pots, \$6.00 per 100; \$45.00 per 1000.

25,000 FIELD-GROWN CARNATIONS, fine, healthy stock. Send for list of varieties and prices.

FERNS—Adiantum cuneatum, 2½-inch pots, \$3.00 per 100; from 4-inch pots, \$6.00 per 100. Ferns in fine assorted varieties, same price.

JAMES HORAN, Bridgeport, Conn.

ROSES.

Clean, healthy stock.

MERMETS, BRIDES, SUNSETS, NIPHETOS, LA FRANCE, PERLES, MME. WATTEVILLE, BON SILENE, METEOR, PAPA GONTIER.

Strong plants, from 3-inch pots, \$8 per 100; \$75 per 1000.

WOOD BROTHERS, Fishkill, N. Y.

Hybrid Perpetual Roses,

Worked low on the Manetti Stock, offer the best results to the florist, blooming freely and giving plenty of cuttings for propagating quickly. Fine plants for sale by the 100 or 1000, at low rates.

Price Lists to applicants. Address

WILLIAM H. SPOONER, JAMAICA PLAIN, (Boston), MASS.

Two Year Old Roses.

FINE LARGE PLANTS. Per 100
BRIDE and MERMET..... \$8.00
PERLE and SUNSET..... 8.00
GONTIER and SOUPERT..... 8.00
LA FRANCE and WHITE LA FRANCE..... 8.50
And all other standard varieties. Send list for prices. Also immense and fine line 2½-inch pot Roses. Finest Rex Begonias, 3-in. pots, \$5.00 per 100.

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August Rölker & Sons

AUCTION ROOMS.

205 Greenwich Street, NEW YORK.

Sales every Tuesday and Friday during September and October.

Palms sold on Tuesdays only.

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

THE AMERICAN FLORIST CO.'S DIRECTORY AND REFERENCE BOOK

FOR 1894

CONTAINS THE FOLLOWING:

1. The names and addresses of the Florists, Nurserymen and Seedsmen of the United States and Canada, the exact branch of the business each is engaged in being indicated.
2. A separate list of firms that issue catalogues, the space devoted to each branch of the business in each catalogue being also given.
3. A list of the names and addresses of superintendents of leading parks in the U. S. and Canada.
4. A list of the principal cemeteries of America at which the arts of the landscape gardener and florist are used in beautifying the grounds.
5. A complete, alphabetically arranged list of Roses in commerce in America, with class, habit of growth, date of introduction, name of introducer, and brief, accurate descriptions of the flower of each. Synonyms are also plainly given.
6. A complete, alphabetically arranged list of Chrysanthemums in commerce in America, with class, and brief, accurate description of each. Synonyms are noted and varieties that are very popular with American growers are designated by a star, and this year's introductions by a dagger.
7. A complete, alphabetically arranged list of the Carnations in commerce in America, with name of introducer, date of introduction and brief, accurate description of each.
8. Seasonable Hints for the year, arranged in weeks, written by Mr. William Scott, and covering every detail of a general florist business. This is decidedly the most valuable contribution to the literature of the trade ever published. It is written in a plain, practical way, by a man who knows what he is talking about.
9. A historical sketch of the Society of American Florists from its organization to date, including officers for each year and lists of essays read at each meeting, with other information of interest.
10. A similar historical sketch of the American Association of Nurserymen.
11. A similar historical sketch of the American Carnation Society.
12. A similar historical sketch of the American Seed Trade Association.
13. Similar historical sketches of the Florists' Hail Association of America; of the National Chrysanthemum Society of America; of the Florists' Telegraph Delivery Association.
14. A complete list of all National and Local Trade Organizations, with names and addresses of principal officers, time and place of meetings, etc.
15. Statistics of Commercial Floriculture in the U. S. from the last census.
16. Statistics of the Nursery Industry in the U. S. from the last census.
17. Statistics of Seed Growing in the U. S. from the last census.
18. A list of Leading Horticultural Societies, with name and address of the Secretary of each.
19. Full information about Express and Postage rates on plants, shrubs, trees, seeds and bulbs

No less than 270 pages of valuable reference matter in compact form, and all UP TO DATE.

PRICE \$2.00 POSTPAID.

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P. O. Drawer 164. CHICAGO.

CATALOGUE PRINTING. ELECTROTYPING.

Done with expert ability for Florists, Nurserymen, Seedsmen. Write to

J. Horace McFarland Co.

HARRISBURG, PA

You will benefit the American Florist by mentioning it every time you write an advertiser in these columns.

IF YOU GROW.... GERANIUMS FOR SPRING SALES OR FOR BEDDING OUT

It will pay you to order a thousand or two of our peerless collection of new sorts at \$10.00 per 1000 for unrooted cuttings. These cuttings are very strong, 3 to 4 inches in length with 2 to 4 strong eyes, and will make EXTRA FINE PLANTS salable at EXTRA PRICES. The varieties we offer have been selected for free blooming, extra large full trusses, and immense single florets as well as taking colors. Many of them produce trusses 6 to 7 or more inches across with single florets 2 in. in diam. when well grown.

LIST OF VARIETIES.

MRS. J. M. GAAR, best white. BRUANTI, fine vermilion scarlet.
REV. HARRIS, best single scarlet. DBL. GEN. GRANT, finest double scarlet.
MRS. E. G. HILL, best salmon pink. LA FAVORITE, finest double white.
REV. ATKINSON, best deep scarlet. BARBIZET, finest deep pink, white eye (splendid sort.)

MADONNA, delicate flesh pink, white eye, vigorous growth, profuse bloomer, immense truss. Very taking and the most salable as a spring pot plant.

PRICE \$1.50 per 100; \$10.00 per 1000. 50 at 100 rate; 500 at 1000 rate.

Also 30 other new varieties, our selection, at same price.

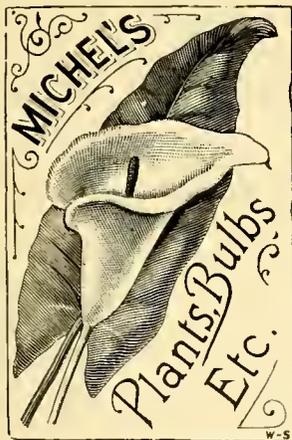
Select such varieties as you wish. No less than 10 of any sort, at 100 rate, or 50 of any sort at 1000 rate.

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Send orders early as frost comes soon.

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Seedling Peach Pits FOR SALE.

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Choice Florist Seeds.
 Pansy, Calceolaria, Primula, Cineraria,
 choicest strains, at 25 and 50 cts. per trade packet.
 Special quotation on **BULBS.**

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 The Universal Horticultural Establishment,
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A. Farleyense Fern

2-inch.....\$12.50 per 100
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Largest stock in the west. Satisfaction guaranteed.
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Kills Mildew and Fungus Growth.
 What does?
GRAPE DUST.
 Sold by Seedsman.

Garnations and Violets.

Extra large field-grown plants, well set with buds.
 3000 TIDAL WAVE..... \$5.50 per 100
 400 PORTIA..... 5.50 ..
 500 DAYBREAK..... 5.50 ..
 VIOLETS MARI LOUISE..... 5.00 ..
 READY FOR DELIVERY NOW.
REINBERG BROS.,
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FIELD GARNATIONS SURPLUS STOCK.

PORTIA, ORANGE BLOSSOM, MRS. REYNOLDS, SPARTAN, AMERICAN FLAG,
 \$5.00 per 100; good medium plants.
 LIZZIE MCGOWAN, 2nd size plants, \$4.00 per 100.
 All clean, vigorous, and free from disease. Cash with order.
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CARNATIONS.

5000 Field-Grown Plants left, the finest I ever grew; free from all disease; packed in first-class shape.
GRACE WILDER, ORANGE BLOSSOM, PORTIA, ANNA WEBB, TIDAL WAVE, GOLDEN GATE, FRED. CREIGHTON.
 at \$5.00 per 100.

500 LIZZIE MCGOWAN, at \$5.00 per 100.
 1000 MARIE LOUISE VIOLET plants, fine, at \$7.00 per 100.

Also an extra fine strain of PANSIES—plants. This strain has been carefully selected from a number of the choicest strains. It is A No. 1. Plants for flowering this winter. \$1.00 per 100; \$8.00 per 1000. Small plants for spring trade, \$5.00 per 1000.

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 Hinze's White, \$5 per 100.
 Marie Louise Violets, \$5 per 100.
 The above all extra fine field grown stock, perfectly healthy.

PANSIES.

The Jennings Strain of large flowering and fancy pansies ready Oct. 15th and on to May 1st.
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Price free by mail 60 cts. per 100; by express 1000, \$5.00; 5000, \$20; 10000, \$35. All colors mixed.
 Pansy seed, finest mixed, 2500 seed \$1.
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LIZZIE MCGOWAN	} \$5.00.
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The new Carnation; pure white, delicately marked with red.
 Strong field-grown plants \$3.00 per doz.; \$15.00 per 100. Second grade, six to eight blooming shoots. \$2.00 per doz.; \$12.00 per 100.
 Orders may be sent either to

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WM. SCOTT, MRS. E. REYNOLDS	Per 100 \$8.00
BUTTERCUP	6.00
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 Offers to the trade only good plants.
 10,000 Araucaria excelsa; 20,000 Azaleas indica; 20,000 Azaleas mollis; 150,000 Begonias and Gloxinia Bulbs, best varieties; 100,000 Palms, clean plants, all sizes; 10,000 Sweet Bays, standards and pyramids.
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Large, strong and healthy.

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Price on application.

AMERICAN BEAUTY and other Roses, 4-inch.

A. S. MacBEAN, Lakewood, N. J.
 Mention American Florist.

GOOD FIELD PLANTS

— OF —

Sweetbrier Carnation.

\$15.00 PER 100.

Other varieties on application. . . .

EDW. SWAYNE,
KENNETT SQUARE, PA.

CARNATIONS

Field Plants Now Ready.

	Per 100	Per 1000
MRS. FISHER	\$6.00	\$50.00
THOS. CARTLEDGE, \$6.00 & 8.00		60.00

Also other standard varieties all vigorous and healthy.

C. J. PENNOCK,
 The Pines. **KENNETT SQUARE, Chester Co., PA.**

THE COTTAGE GARDENS,

Queens, Long Island, N. Y.

WHOLESALE CARNATIONS.

DAYTON, OHIO.

FIELD-GROWN CARNATIONS:

EDNA CRAIG, WHITE DOVE, \$5.00 per 100.	GARFIELD, ATTRACTION, And others.
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THE HIGHLAND FLORAL CO.

CARNATIONS, Strong, Healthy Plants.

Hinze's White White Dove, White Wings, Lamborn, Garfield, \$3.00 per 100; \$25.00 per 1000.
 Duke of Orange, Nellie Lewis, Attraction, Ben Hur, Western Pride, Golden Triumph, Portia, Richmond, Spartan, Blanche, Tidal Wave, Purdue, Mrs. Reynolds, Golden Gate, J. J. Harrison, Dawn, Hector, Mrs. Hillt, Louise Porsch, Mrs. Fisher, \$3 per 100; \$35 per 1000.
 Edna Craig, Wm. Scott, Daybreak, Fred. Dorner, Silver Spray, McGowan, \$6 per 100; \$50 per 1000.
 MARIE LOUISE VIOLETS, from 2-in. pots. \$2.50 per 100; \$20 per 1000. TERMS CASH WITH ORDER.

JOSEPH HEINL, JACKSONVILLE, ILL.

CARNATIONS.

Rooted Cuttings, Young Plants, Field-Grown Plants in season. Send for prices.

Geo. Hancock & Son, Grand Haven, Mich.



Nurserymen and Florists

should have our new Trade List for Autumn 1894. Contains one of the largest and finest assortments OF ORNAMENTAL TREES, SHRUBS, VINES and SMALL FRUITS. Send for one.
THE WM. H. MOON CO.,
 Morrisville, Pa.

Kansas City, Mo.

It has been high carnival here this week and the whole city has been given over to the people; it has been conducted by the Society of the Priests of Pallas. An immense ball was held Wednesday at which the decorations were very elaborate; taking one thing with the other the florists in general have profited thereby and it has served to open the winter trade which is anxiously looked forward to.

A visit to the establishment of the Probst Bros. Floral Co., presided over by their genial manager, Mr. Samuel Murray, revealed a place well kept and stock generally A1.

Several houses have been entirely rebuilt and an addition of two houses 80x20 erected. These contain at present single stem "mums" which look very promising.

The "chrysanths" in 6 and 7-inch pots which were being staked when your correspondent called are worthy of special note.

The new rose Mme. Philemon Cochet is having a trial; it is somewhat like Mermet, but more robust; the flowers keep their color and have good lasting qualities. White La France is also likely to prove useful. A house 86x20 of Perle and Sunset was great.

Mr. Murray grows for standard carnations the following: Daybreak, Lizzie McGowan, Portia, Fred Dorner, William Scott and Edna Craig; he is looking for a good all round yellow.

The city store has a useful adjunct in the conservatory at the rear, and is an ideal one for the purpose for which it is intended—a show house and a storage place for decorative palms, ferns, etc. Miss Murray is the presiding genius here and reports that trade has taken a decided turn for the better, with a better call for decorative plants.

R. S. Brown & Son have been building extensively this summer, remodeling entirely a block of nine houses, 150x125 feet, in spite of hard times. Their's is almost entirely a shipping trade and their stock of young stuff is well forward. Their mailing department is also of large proportions.

I noted quite a useful plant in *Asclepias curassavica*, very useful for summer cutting with its umbels of white, that keep well; *Vinca alba* is also planted out in benches and its flowers of white nearly two inches across are used largely for ground work in designs.

Crotons bedded out have proved a great success, coloring very highly in the full sun and making beds that have proved very attractive.

Begonia rex, a most complete collection, are good sellers; noticeable were Marquis de Peralt, Louis Cappe, Louis Closson, Count de Liminghii and Inimitable.

Roses, carnations and "mums" were looking well. Stock plants of geraniums were just being brought in from the open and potted into as small pots as possible, but before so doing were stripped of as many leaves as possible to economize room and to prevent rotting.

The Humfeld Floral Co., the three brothers Humfeld, have added one small house this summer, 50x12, for forcing *Lilium Harrisii*. Their plants all had a healthy appearance and the "mums" were well forward. A banana in fruit was causing quite a furor in the vicinity, it being an unusual sight for the "Packer City" people. H.

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PITCHER & MANDA, SHORT HILLS, N. J.

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ROSE HILL NURSERIES,



NEW ROCHELLE, N. Y.

Palms,
ORCHIDS,
Roses,

and New Plants.

FRESH DRACAENA CANES NOW READY.

PALMS.

150,000 of all the leading varieties.

FERNS.

50,000 of leading varieties.

Address GEORGE WITTBOLD,
1708 N. Halsted St., CHICAGO.

ORCHIDS OUR SPECIALTY.

The Best and Largest Stock in the World.
New & Rare Foliage & Flowering Plants.
A grand selection for Stove, Greenhouse and Conservatory.

SANDER, St. Albans, England.

Our Mr. A. Dimmock will be pleased to interview buyers or reply to any communication addressed to him at 235 Greenwich St., New York City.

FERNS.

ADIANTUM CUNEATUM. Fine young stock, from 2½-inch pots, \$5.00 per 100; \$45.00 per 1000.

Field-grown Carnations—SOLD OUT.

FISHER & AIRD,
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ALYSSUM.

Giant Double for winter bloom. A few hundred strong plants in 3-inch pots, at \$4.00 per 100.

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CARNATIONS AND COLEUS,
AVONDALE, Chester Co., PA.
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CLEMATIS..

FOR FALL DELIVERY.

Special prices at wholesale, on application. Splendid stock and assortment.

DOZEN, \$3.00; 100, \$22.50.

F. A. BALLER, Bloomington, Ill.

Tuberous

Begonias

(GRIFFIN'S STRAIN.)

Plants in bloom, all sizes, at lowest prices.

OASIS NURSERY CO.,

Thos. Griffin, Mgr. Westbury Station, L. I., N. Y.

PANSIES...

Every Florist Claims the Best.

I am willing to have mine tested alongside of any in the market. Over a thousand florists used them last season, were pleased with them and made money out of them.

Have any quantity of fine plants ready now. They can not be offered in competition with cheap grown seed, but quality considered, are remarkably cheap at the price.

By Mail or Express, prepaid, 75c. per 100; by Express at your expense, \$5.00 per 1000. A Liberal discount will be allowed on large orders.

ALBERT M. HERR, L. B. 496, Lancaster, Pa.

PANSY SEED.

NEW CROP NOW READY. Very fine mixture of large flowering varieties and choice colors, especially selected for florists' use. 1 oz. \$3.00.

NEW GIANT PRIZE PANSY, finest strain in the market. 1 oz. \$5.00.

Low prices on *Lilium Harrisii*, *Longiflorum*, Roman Hyacinths, Lily of the Valley, etc.

Special low prices on Rustic Baskets.

HERRMANN'S SEED STORE,

413 EAST 34TH STREET,

Near Long Island Ferry, NEW YORK.

PANSIES.

White's SUPERB Strain.

\$1.00 per 100 by mail, prepaid; \$6.00 per 1000 by express, prepaid.

CARNATIONS. Field-Grown.

Silver Spray, Grace Wilder. \$5.00 per 100 CASH WITH ORDER.

JOHN WHITE, Waverly Place, Elizabeth, N. J.

Pansy Plants.

EXTRA FINE STRAIN.

75 cents per hundred; \$5.00 per thousand.

ESSEX HEIGHTS FLORAL CO.,

..... BELLEVILLE, N. J.



TRY DREER'S

GARDEN SEEDS,

Plants, Bulbs & Requisites. They are the best at the lowest prices. Trade List issued quarterly, mailed free to the trade only.

HENRY A. DREER, Philadelphia, Pa.



Gardiner's Celebrated English

Mushroom Spawn.

Fresh and Reliable.

\$7 per 100 lbs.

Special price on larger quantities.

John Gardiner & Co., Philadelphia, Pa.

E. G. HILL & CO.,

Wholesale Florists

RICHMOND, INDIANA.

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GREAT AUCTION SALE

FRIDAY, OCTOBER 19TH

UPWARDS OF

3,000 ORCHIDS

Imported, established and semi-established.

From F. SANDER & CO., St. Albans, England,

Selected for their easy growth, free flowering and showy character, and arranged in lots to suit both trade and amateur. Any florist possessing a palm house should try a few of these popular and interesting plants.

Messrs. August Rölker & Sons

will sell the above at their Auction Room

205 Greenwich Street, NEW YORK,

WHERE ILLUSTRATED CATALOGUE MAY BE HAD ON APPLICATION.

CYCAS REVOLUTA.

Orders booked now for fresh imported stems, fronds and roots cut off; best long-leaved variety. Delivery Feb. 1st to April. Cultivated Cycas always on hand, rooted and well established

Lil. Auratum, Spec. Rubrum and Album, Etc. Iris Kämpferi, in 100 choice varieties. Japanese Maples, in best varieties. Camellias, Pæonies, Tree Ferns, Raphis, Etc. Araucaria excelsa, choice cultivated stock at lowest prices.

For general Japanese stock apply to

F. Gonzalez & Co.,

303 to 312 Wayne St., SAN FRANCISCO, CAL.
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Grevillea Robusta.

Strong 2½-inch pots, 50c. per dozen; \$3.00 per hundred.

NATHAN SMITH & SON,
ADRIAN, MICH.

10,000 CINERARIAS

of surprisingly brilliant colors, dwarf and large flowered. 2¼-inch. \$2.50 per 100
BEGONIA VERNON, 2¼-inch. 3.00 per 100
CYCLAMEN, 3-inch. 6.00 per 100
GENISTAS, 3 inch. 4.00 per 100
CASH WITH ORDER.

S. WHITTON & SONS, Wholesale Florists,
9 and 11 Roberts Street, UTICA, N. Y.

"HARD TIMES" PALM COLLECTIONS.
For cash with order we give 17 3 and 4-in. Palms for \$3 (regular price \$4), and 31 for \$5 (regular price \$8). These comprise the best varieties, including Latanas and Kentias.

WILLIAMS & SONS CO., Batavia, Ill.

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Trees, Shrubs, HARDY PLANTS.

We offer an immense stock of Carolina Poplars, 12 to 15 ft. and 15 to 20 ft.

EXTRA LARGE SHRUBS. All the popular kinds, such as Deutzias, Berberis Thunbergii, Japan Quince, Forsythia, Hypericum, Spiræas, Tamarix, Privets, Mock Orange, Golden Elder, Snowballs, and many others. Also a fine stock of American Chestnut 6 to 7 ft. European Larch 5 to 6 ft. Prunus Pissardi 4 to 5 ft. Spanish Chestnut 3 to 4 ft.

Immense stock of German Iris and Pæonies, finest sorts at lowest prices.

Send list of your wants to be priced.

B. A. ELLIOTT CO.,
No. 54 Sixth Street, PITTSBURG, PA.



TREES, TREES, TREES.

For Avenue and Street planting including an immense stock of MAPLES, ELMS, POPLARS, LINDENS, OAKS, in variety, of medium and large sizes. Estimates furnished.

THE WM. H. MOON CO.,
MORRISVILLE, PA.

Primula Obconica.

Fine, 2-in. pot plants, \$3.00 per 100
" 3½-in. " 5.00 "
Seed, crop of 1894, 50c. per 1000.

I. N. KRAMER & SON,
CEDAR, RAPIDS, IOWA.

Marie Louise Violets.

1000 strong clumps, self-grown, free from disease, for cash with order, \$5 per 100; \$40 per 1000.
GEO. N. SAYLES, 40 Bradley St., Watertown, N. Y.

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Plants AND Cuttings.

ACHYRANTHES, ALTERNANTHERA,
COLEUS, CARNATIONS,
CUPHEA, GERANIUMS,
AND SOME OTHER STOCK.

We have no price list. Will quote prices here when ready to ship, or on application.

S. O. STREBY,

Lock Box 77,

UPPER SANDUSKY, OHIO.

Mention American Florist.



New Catalogue (No. 4) containing over 1,000 Ornamental Cuts for Florist's use, such as envelopes, letter heads, bill-heads, cards, advers., floral designs, etc., at from 30c. and upwards. Price of Catalogue 25 cts. (deducted from \$1 order).

A. BLANC,
Engraver for Florists,
PHILADELPHIA, PA.

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TOBACCO DUST. Per 10 lbs 50c; 25 lbs \$1.00; 50 lbs \$1.50; 100 lbs \$2.50. Extra fine, per 100 lbs. \$5. Sample FREE.

Vaughan's Seed Store, Box 688, Chicago.

Fine, Fresh Mistletoe

for \$3.00 per barrel.
Or would exchange for bench roses or bulbs.
EL PASO GREENHOUSES,
MRS. MAUD M. BRIGGS, El Paso, Texas.

St. Joseph, Mo.

L. J. Stuppy, who has recently returned from California where he has been on an extended vacation, has rebuilt this summer and added considerably to his "Mount Mora" greenhouses. Three short span to the south houses 100x20 and a forcing and propagating house equal span 60x18.

Mr. Stuppy is growing about twice as many chrysanthemums this year as last, the demand for better and larger flowers being on the increase. He has planted a bench for the first time this year and for an initial performance are fine; plants in 4, 5 and 6-inch were well grown and furnished to the pot.

Roses, two houses 125x25, including a fine bench of Beauties which do well in this district, gave great promise.

Daybreak is the leader in carnations and is apparently the best to resist rust and the other ills carnations are heir to.

One of Mr. Stuppy's specialties is flowering plants for the spring, which he ships in great quantities to the surrounding towns to be disposed of by the general store dealers, etc., cannas being in great demand.

At the "old place," where the downtown store is situated, are four houses 100x20 where many roses, carnations and the decorative palms, etc., grown.

J. N. Kidd, late partner of Newell & Kidd, is now running the greenhouses here, while Mr. Newell is engaged in the store trade at Kansas City. Mr. Kidd has about 15,000 feet, chiefly devoted to roses, carnations and chrysanthemums; the last named in 5 and 6-inch pots, looking particularly well; he has also some fine bench stuff.

Quite a lot of Perles are grown, Mr. Kidd considering it a fine rose for this section and freer from "bull heads" than in the east. Of carnations Hinze's White, Portia, Grace Wilder, Tidal Wave, and last but not least, Daybreak, are the varieties grown principally and were good considering the drouth. R.

HARRY BUNYARD says he has started as a grower. He is growing a mustache.

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SILVER MEDAL AWARDED

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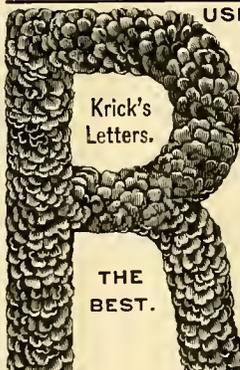
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Omaha, Neb.

A half hour's ride on the electric cars and a half mile walk brought me to the houses of Mr. A. Donahoe, who since he moved into the country, has built from time to time so that now he has some 50,000 square feet of glass devoted chiefly to growing cut flowers and plants for his retail store in the city.

What appeared to me to be rather a novelty were some designs, horse shoes, wreaths, etc., and a turtle (mock) made by entwining the *Davallia bullata*, which seemed to be perfectly at home, looking green and nice. Mr. Donahoe said they might have looked better but that the rats are very partial to *davallia rhizomes*; I suggested it was the "turtle" they were after.

A novelty in the rose houses was the staking. Wire is used but a loop is made at the top end and the wires are suspended saving the tie. Mr. D. has found it to work very satisfactorily.

In the carnation houses L. L. Lamborn is used for the short side benches; other varieties grown are Grace Wilder, Lizzie McGowan, Portia, Silver Spray, William Swayne and Anna Webb.

A great many single violets are grown and their foliage is very useful for cutting and using with the double when leaves are short. A big lot of "mums" are coming along in good shape. A house of La France roses is worthy of note, in fact all are looking well. Palms, ferns, and fancy foliage plants are grown for decorating and some *Pandanus utilis* in 6-inch pots, a very useful size.

J. Ederer has built a new carnation house 60x20 and an addition to his dwelling house.

Hess & Swoboda a carnation and rose house each 60x20. Mr. Hess says though trade was unusually dull during the summer he has better hopes for the winter trade.

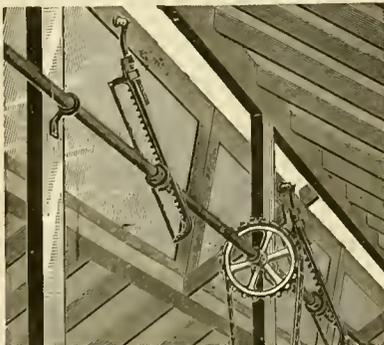
Quite a moral influence have the windows of the large saloons here, having much the appearance of a florist's store. I hear that they are kept in condition for a certain amount per month. N.

SEE HERE

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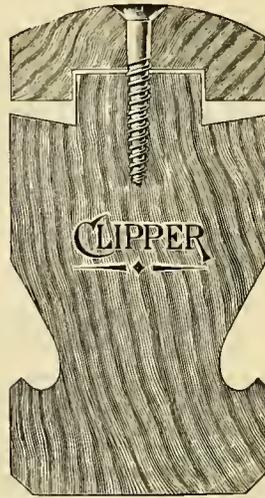
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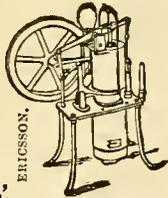
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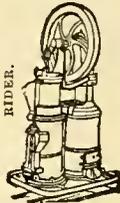
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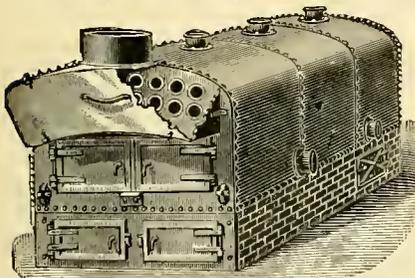
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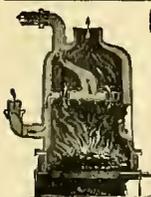


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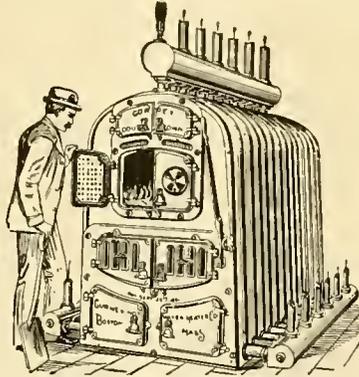
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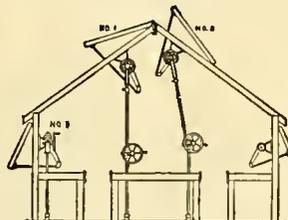
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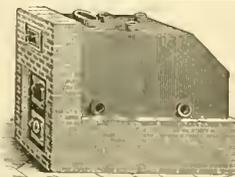


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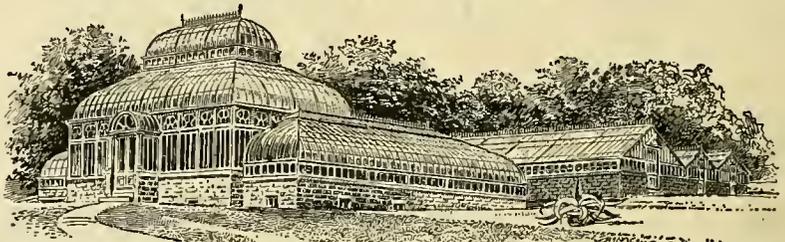
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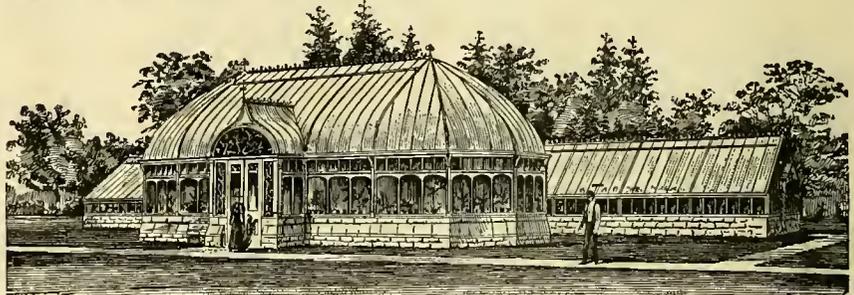
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WAUKEGAN, ILL.—F. R. Clarke has purchased the greenhouses formerly conducted by Thos. Kane.

NORFOLK, VA.—M. Bonnot, for many years in the nursery and florist business here, died on October 3 aged 72.

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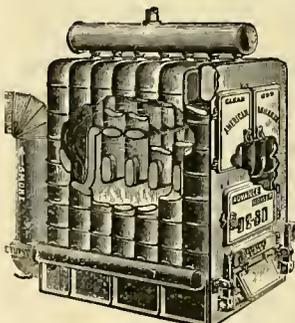
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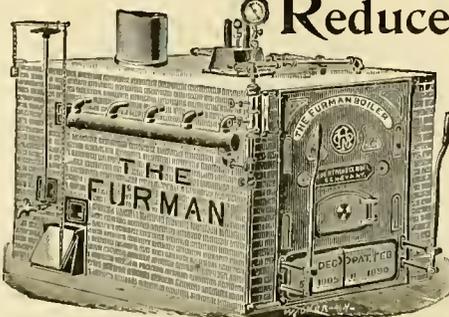
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Vol. X.

CHICAGO AND NEW YORK, OCTOBER 20, 1894.

No. 333

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SOCIETY OF AMERICAN FLORISTS.

J. T. ANTHONY, Chicago, president; ROBERT KIFT, Philadelphia, vice-president; WM. J. STEWART, 67 Bromfield St., Boston, Mass., secretary.

The new officers to be installed Jan. 1, 1895, are: EDWIN LONSDALE, Chestnut Hill, Philadelphia, president; E. C. REINEMAN, Allegheny City, Pa., vice-president; WM. J. STEWART, Boston, secretary; H. B. BEATTY, Oil City, Pa., treasurer. The 11th annual meeting will be held at Pittsburg, Pa., August, 1895.

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ATLANTA, GA.—Wm. Plumb is just recovering from a severe case of typhoid fever.

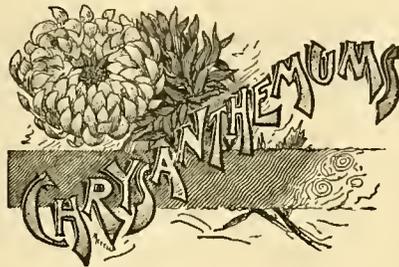
CHATTANOOGA, TENN.—The chrysanthemum show will be held November 6 to 9.

DIXON, ILL.—A chrysanthemum fair will be held here November 8 and 9.

PROVIDENCE, R. I.—Johnston Bros. have removed to a new store at 208 Westminster street.

CRAWFORDSVILLE, IND.—A chrysanthemum show will be held here this year by the Montgomery County Chrysanthemum Society.

ELMIRA, N. Y.—Mr. Grove P. Rawson has issued cards for his annual exhibition of chrysanthemums and other flowers, October 29 to November 7 inclusive.



Chrysanthemum Notes.

Now comes the crucial period to the chrysanthemum grower. He may have grown the best plants, tipped with the largest buds only to find that when the blooms open a large percentage of them will have petals that are brown or spotted, so great care must be taken now to bring the flowers out in prime condition. By the time that this article is in the hands of its readers the blooms will nearly all be, at least half unfolded, and liquid manure had better be dispensed with entirely. Keep a little fire heat on now during the night in the houses, it is far better to do this, and give a little night ventilation, than to go without the heat altogether, for the cold damp air is one thing that will spot the flowers. Stop all chemical feeding for probably there are more flowers tarnished by following this up too late in the season than from any other cause. This must be stopped before the blooms get into flower for we have known flowers to be tarnished by the soil retaining nitrate of soda where they had been heavily fed a week or two previous. Be careful in the watering; under no conditions allow the plants to become dry and do not go to the other extreme and keep them soaked, or the root action will be retarded and the bloom will suffer accordingly.

When the blooms are fully developed is the proper time to cut them and put them in a tub that is deep enough to hold 12 or 15 inches of water, and place them in a dark cool cellar, keeping them there for at least 12 hours, and then you will have a flower that can be shipped across the country, and if well packed, arrive in good condition. A great many growers cut the blooms too early, thinking that if cut when about three-quarters open and placed in water they will last longer, and perhaps they would if they were not again moved, but a flower fully matured on the plant and then placed in water in a cool place long enough to harden it, has more substance and will carry much better and stand longer on the exhibition table than one developed in water. Some growers are in a great hurry to be the first in the market, cutting half developed flowers and rushing them into the stores, and then wonder why when the blooms have stood in the windows for half an hour the leaves and flowers wilt down and look

worse than the paper chrysanthemums we have sometimes seen. Let the flowers get fully open and then let them stand in water at least over night, and they will keep fresh in the window all day.

When you are going around among the plants always have a pocketful of blank tags with you, and if the plant is wrongly named immediately tag it, if you want to save it and if not pull it up when you cut off the bloom, and throw it away. Wherever there is a tag that has become indistinct replace it with a new one; in fact, it is a good precaution against mixing the stock later to replace all tags now when the plants are in bloom. When you write the tags look up the correct name and write it out in full on the tag, and as Uncle John Thorpe once said if the name is so long that one tag won't hold it use two.
ELIJAH A. WOOD.

Notes on Chrysanthemums Taken October 16, 1894.

MRS. E. G. HILL. This was recommended as a very early variety, the disseminator claiming that it was readily gotten into bloom by October 10, but with me it will be from ten days to two weeks later than that time. It is a very tall grower, too tall in my judgment. Our plants are about seven feet high. These plants are being grown in a solid bed, which is no doubt the cause of them being later than they ought to be.

YELLOW QUEEN, another new one of 1894. This also was claimed to be an early variety. The date at which it was said to bloom I can not now remember. It is later than the one just mentioned. I like its habit of growth, however, much better, as the plants are a little over five feet high. In this variety those plants which are nearer the outer edge of the solid bed are the most early, showing, I think, that they are somewhat dryer, and this seems to hasten early flowering.

MRS. CRAIG LIPPINCOTT. I have not a fourth as many of this variety as I had last year. I was afraid to go into it heavier, fearing that the success we had with it last year would induce the florists growing for the Philadelphia market to grow large stocks of it; whether my judgment in that matter is correct or not remains to be seen. The plants this year, I think, look stouter than they did last year, but whether the flowers will be any better we can not tell for a few weeks to come, for two weeks anyway. They are not as forward as Yellow Queen, being the same distance, apparently, between the time of flowering of Yellow Queen, as there is between Yellow Queen and Mrs. E. G. Hill.

EUGENE DAILLEDOUZE. This certainly was the sensational variety last year. Whether we can grow it as well as Hill & Co., who sent it out, can only be told at the end of the chrysanthemum season.

Its origin is said to be from Kioto, and it certainly does partake of some of the characteristics of that good old Japanese variety. It may not be as beautiful in form, but it certainly is much larger, and is without the defect that the old variety has; namely, that of a weak stem. We will watch this variety with great interest, and hope to be able to have some good flowers of it at the proper time.

MUTUAL FRIEND. This was sent out last spring by a New England firm, and we hope it will be worthy of the good things that were said of it when introduced. It is a white variety and is more forward than either Mrs. Craig Lippincott or Yellow Queen, apparently, and a little less forward than Mrs. E. G. Hill.

MINERVA. This we heard very good accounts of last year, some going so far as to say it was very nearly if not quite equal to E. Dailedouze. It is earlier than that variety, much earlier, apparently, so that there will be no conflict on that account. It was sent out by Mr. May in the spring of the present year. In point of earliness it is equal, apparently, to the last named—Mutual Friend.

MARIE LOUISE. In point of earliness, with me, this leads them all. It is a pure white variety, and from it I expect good results. I saw it when I was in Chicago last fall, grown to a single stem as pot plants, and it was in good condition at that time, showing that it can either be a mid-season variety or an early variety, according to the time the cuttings are rooted and the way they are grown. We expect to grow it largely as an early variety next year, that is to say, if it turns out as well as it appears likely to do at this writing.

MRS. J. GEO. ILS. This is a variety which was sent from San Francisco to the World's Fair chrysanthemum show last fall, and on account of its great size, good form and excellent qualities generally it attracted more attention than any other kind on exhibition, I think. But owing to the long distance that it had travelled it was not in the best of condition on arrival. There were not enough blooms to compete in any of the classes. It seemed to have more petals to the flowers than any other variety that we have seen up to this time. It is inclined to be a little late, and I regret to say, somewhat rusty.

MAJOR BONNAFFON. This is another variety which created a favorable impression at the World's Fair. It was described as a yellow Ivory. Whether it will sustain that reputation it can not be told until later in the season. It certainly is inclined to be dwarf, at present, growing three feet high, where others that were planted at the same time under the same conditions are seven feet high. This is in about the same condition as Yellow Queen as to earliness.

MRS. JEROME JONES is a medium late variety, apparently. It is in about the same condition as to its time of flowering as Mrs. ILS. It has a fine foliage, and is altogether, apparently, a very useful sort.

MAYFLOWER is quite as early as Minerva, and appears to be very promising. **ERMENILDA** created a very favorable impression with all who saw it last year on account of its delicacy of coloring. It belongs to what is called the "pink class." It is about equal with Mrs. Jerome Jones in time of flowering.

MRS. BULLOCK, OR DOMINATION as it is more generally called outside of Philadelphia, is somewhat early, though not so much so as Marie Louise or Minerva.

NIVEUS. It may be a day or two earlier than Ermenilda. The stems seem stouter

this year with me than they did last, and I hope on that account that it will be better. This type, however, according to my judgment, is just a little too tall for practical purposes.

THE QUEEN. This also created a sensation last year on account of its purity of color and good form. This ranks with Niveus as to earliness.

J. H. TAYLOR. This would be an early variety under favorable conditions, ranking about as Marie Louise does as to time of flowering.

WM. G. NEVITT. We do not have much of this variety. It seemed affected with the disease which Golden Wedding had so bad last year, so that we can not recommend it.

H. L. SUNDERBRUCH is an excellent yellow, large, fine color, full, and we think will rank as an early variety under correct treatment.

M. B. SPAULDING. We have not enough to be able to say much about it at this writing, only having three or four plants.

PRES. WM. R. SMITH. This is tall, dignified, and in about the same stage of earliness as is Minerva.

ILLUMINATOR. Of this we only had one or two plants last year, but we were so favorably impressed with the large flowers which those plants produced that we felt encouraged to grow it quite heavily for this season's flowering, but unfortunately, it is not one of those varieties which can be gotten up in quantity, owing to its tendency to throw up flower shoots when quite young and small.

FASCINATION. Can not say much about this, as we have only a very few plants of it.

ADA H. LEROY is certainly a very strong grower, the flowers promising to be large and fine, and, judging from its present appearance, we think that it ought to be grown in large quantities.

There are two or three other kinds, such as Monarch of Ostrich Plumes, Miss Frances Thorley, Titian, Parthenia, and a supposed white sport from Eda Prass, and many others that we have here, but owing to the small quantity grown we can not tell anything about them until they are quite in flower.

IVORY. This good old kind has been justly pronounced one of the best, if not the very best chrysanthemum ever raised, but with me it has never yet done first class. As to earliness with me it is in the same class as Minerva.

NOTES TAKEN ON THE SAME DATE OF PLANTS GROWN IN BOXES.

We find, as a rule, that plants grown in this way produce flowers some days earlier than those grown in the solid beds. We must bear this in mind next year, so that we can grow all the early varieties in boxes, and all medium and late varieties in the solid beds. Marie Louise under this treatment is the first ready to cut. It certainly is a beautiful variety. Next, I think, we will name Marian Henderson. It is not as large as the last named, but being different in color they will be good companions as they come in almost together. It is a beautiful rich yellow color, similar in color to the dandelion.

MRS. WHILLDIN is apparently a day or two earlier than H. Sunderbruch, but as Mrs. Whilldin shows symptoms of disease it will hardly be safe to grow many of that another year, whereas Marian Henderson, which is quite as early and possibly a day or two earlier is healthy.

MRS. E. G. HILL is very much more forward as grown in boxes than it is when grown in the solid bed, consequently it

should never be grown in a solid bed for very early flowers.

VIVIAND-MOREL, which has been grown so successfully for the New York and other markets for some time past, has never been grown in very large quantities for this market, and as I have so few plants can not judge of its merits.

YELLOW QUEEN as grown in boxes is more forward taking it altogether than when grown in a solid bed, but it appears to be unhealthy, that is to say, the leaves have that rusty appearance which is so much complained of among several growers in different parts of the country. And as for Mrs. J. Geo. ILS the disease is very bad. I am afraid that it will be absolutely worthless grown in boxes.

MUTUAL FRIEND is a little earlier when grown in boxes than it is when grown in solid beds, but the plants are not quite so healthy as they are when grown under the latter conditions. This state of affairs in the case of boxes we are inclined to believe may be owing to lack of water at some period of their existence.

In three weeks from to-day most all minds horticulturally inclined will turn towards chrysanthemums, most of the others towards state and county elections. E. L.

Coming Exhibitions.

- WAYNE, PA., Oct. 30-31. Fall exhibition Wayne Hort. Society. John G. Gardner, Supt., Villa Nova, Pa.
- SAN FRANCISCO, Nov. 1-3. Chrysanthemum show California State Floral Society. Mrs. T. L. Walker, Sec'y, 2549 Piedmont Ave., Oakland, Cal.
- CHICAGO, Nov. 3-11. Chrysanthemum show Hort. Society of Chicago. W. C. Egan, Sec'y, 620 Dearborn Ave.
- BALTIMORE, Nov. 5-10. Chrysanthemum show Gardeners' Club of Baltimore. Wm. Feast, Sec'y, 228 N. Charles St.
- MILLBROOK, N. Y., Nov. 6-7. Chrysanthemum show Millbrook Hort. Society. L. Kennedy, Sec'y.
- NEWPORT, R. I., Nov. 6-8. Chrysanthemum show Newport Hort. Society. Alex. MacLellan, Sec'y, Ruggles Ave.
- BOSTON, Nov. 6-9. Chrysanthemum show Mass. Hort. Society. Robt. Manning, Sec'y, Horticultural Hall.
- PITTSFIELD, Mass., Nov. 6-9. Chrysanthemum show Berkshire County Gardeners' and Florists' Club. W. M. Edwards, Sec'y, 103 Howard St., Pittsfield.
- ST. LOUIS, Mo., Nov. 6-9. Chrysanthemum show St. Louis Florists' Club. E. Schray, Sec'y, 4101 Pennsylvania Ave.
- INDIANAPOLIS, IND., Nov. 6-10. Chrysanthemum show Society of Indiana Florists. W. G. Bertermann, Sec'y, 37 Massachusetts Ave.
- PHILADELPHIA, PA., Nov. 6-10. Chrysanthemum show Pennsylvania Hort. Society. D. D. L. Farson, Sec'y, Horticultural Hall, Broad St.
- LOUISVILLE, KY., Nov. 6-10. Chrysanthemum show Louisville Florists. H. Nanz, Sec'y, 582 Fourth Ave.
- FREDERICK CITY, MD., Nov. 7-9. Chrysanthemum show Frederick County Horticultural Society. C. E. Kemp, Sec'y.
- OSHKOSH, Wis., Nov. 7-9. Chrysanthemum show Oshkosh Floral Club. Mrs. G. M. Steele, Sec'y.
- DENVER, COLO., Nov. 7-10. Chrysanthemum show Denver Florists' Club. Adam Kohankie, Sec'y, L. B. 375, So. Denver, Colo.
- PROVIDENCE, R. I., Nov. 8-10. Chrysanthemum show Rhode Island Hort. Society. C. W. Smith, Sec'y, 61 Westminster St.
- MONTREAL, Nov. 12-14. Chrysanthemum show Montreal Gardeners' and Florists' Club. Fred Bennett, Sec'y, 62 Aylmer St.
- WORCESTER, MASS., Nov. 13-15. Chrysanthemum show Worcester County Hort. Society. Edw. W. Lincoln, Sec'y.
- SPRINGFIELD, MASS., Nov. 13-15. Chrysanthemum show Hampden County Hort. Society. W. F. Gale, Sec'y, 331 Main St.
- MILWAUKEE, Wis., Nov. 13-15. Chrysanthemum show Milwaukee Florists' Club. A. Klokner, Sec'y, 219 Grand Ave.
- MOBILE, ALA., Nov. 15-17. Chrysanthemum show Mobile Chrysanthemum Club. Miss Mollie Irwin, Sec'y.
- TORONTO, ONT., Nov. 20-23. Chrysanthemum show Toronto Gardeners' and Florists' Ass'n. A. H. Ewing, Sec'y, 85 Carlton St.
- HAMILTON, ONT., Nov. —. Chrysanthemum show Hamilton Agric. Society. Walter H. Bruce, Sec'y.

ALWAYS mention THE AMERICAN FLORIST when writing to advertisers.



CHRYSANTHEMUM LEAF SPOT.

Chrysanthemum Blight.

A large grower of cut flowers in Delaware Co., Pa., sends me specimen plants of chrysanthemums badly afflicted with a blight and states that the Golden Wedding and Lady Lawrence sorts are the most diseased. Many other growers of the chrysanthemum are troubled in the same way and a common question asked is concerning whether the blight will spread. Of course the remedy is asked for in every instance.

In the first place the disease is not a new one. Last season for example, it nearly ruined some varieties of chrysanthemum, the Golden Wedding perhaps suffering most.

In the second place the cause is a fungus of the genus septoria, at least the specimens from Pennsylvania show only this species. There are other fungi that prey upon the chrysanthemum but the septoria is the one to be charged with the destruction now under consideration. As is usual in the leaf blights it is the older leaves that show the disease most extensively, simply because the fungus has had a longer time to work in those leaves. The lower leaves become pale and turn brown in spots and finally dry up and fall away. The engraving shows a leaf that has several dark dead patches scattered among the yellow remaining portions of the leaf.

No systematic efforts so far as known to the writer have been made to check this disease, but from the similarity of this leaf spot to others that have been treated and in good degree subdued there remains but little doubt but that this blight could be held in check. For doing this there is no better known fungicide than the Bordeaux mixture. During the past summer this has been used with striking effect upon truck crops and there

is no reason why florists should not test the effects of this fungicide upon their crops.

BYRON D. HALSTED.

Exp. Station, New Brunswick, N. J.



TO PREVENT RUST.—Dissolve one pound of sulphate of copper in two quarts of ammonia in a 2-gallon jar. When dissolved add another quart of ammonia and stir well. [The liquid can be kept in this form for some time and used as needed.] Add a pint of this solution to a barrel of water and syringe the plants with a force-pump every two weeks. And don't let the time for spraying pass without attending to the operation.

Carnation Notes.

Keep a close watch on your ventilators now, for we are getting cold nights and the mercury should not drop below 50°. Commence firing if necessary to keep temperature at this point; 70° during the day is sufficient and 65° is better. Remember that it takes an even temperature to produce long keeping flowers, and this feature is one of the points that will bring you a good class of customers. The question is often asked, why flowers are so apt to go to sleep after a few days of cloudy weather. I believe the answer should be, because of a lack of water and too much heat during night and day. Do not be afraid to give plenty of air when it is raining; the moisture thus acquired is capital for carnations and is much better than using artificial sprinklers for it, also gives the plants elements from the atmosphere which can not be given them

in any other way. This treatment should not be followed during a very cold storm.

As the new growth comes into bud disbudding should be attended to thoroughly. Many claim it does not pay, and this is very true where the grower has a sale for short stemmed flowers at one dollar per hundred, or even a trifle less, but when growing for a large market disbudding is absolutely necessary, for the competition is so great to-day that only the very best flowers will bring a remunerative price, and the public demand stems with but a single flower the same as with the rose or the "mum." Does it not improve these latter flowers to disbud them? Does it not require a greater amount of strength to mature three or four buds than one? Certainly it does, and this fact is now acknowledged by all of the leading carnation growers. The result is that the average run of carnations now sold is vastly superior to those sold a few years ago, and the demand has increased far beyond the supply. This applies to A1 flowers.

Several of the leading retailers in New York say they could not get near enough last season and that if the growers would use as much care as the rose and "mum" growers do, they could use as many carnations as they do roses. A1 flowers of Scott, Daybreak, Albertini and others of this grade are bringing to-day two dollars and few to be had. This is owing (the scarcity) to the dry season we have had, but why not propagate a few thousand plants, grow them in beds and cover them September 1 with portable frames, where they can be watered and cared for? This is a mistake that most growers have made in the past, and I am among the rest.

Begin your propagating now; when the cuttings are well rooted plant them in a cold frame that can be protected during extremely cold weather and you will have fine stocky young plants for next summer and fall flowering. This is not guess work. There is a grower for the New York market who grew thirty thousand Portias in this way last winter and he has been cutting quantities of bloom all along, only his mistake was that he paid all his attention to one variety.

CHARLES H. ALLEN.

When to Plant Carnations.

I read carefully the notes of Mr. Allen in your last issue on carnations, and I must respectfully take exception to a part of them. Mr. Allen says "If the plants are taken into the houses the latter part of September and in bud they will mature a few of those buds, and then as a rule lie semi-dormant until late in January unless you have an unusual amount of sunny bright weather during December." Mr. Allen advocates planting in August and says he finished planting on August 25. If this is all the time you are going to give the plants out of doors you might as well not plant out at all, but pot them into a 4-inch pot and plunge in a frame. It seems to me that this advice is somewhat misleading, especially with some varieties. It may answer with Portia, Tidal Wave and some other varieties, but with Daybreak, Wm. Scott and Sweetbrier I know it is wrong. A little actual experience related is better than many words, and here it is:

I planted on the 25th of September, 1893, 380 Wm. Scotts. They were full of buds just about to open; not more than one dozen flowers had been picked in the field. I began to pick long stemmed flowers from the very day they were planted, and from November 1 on was picking

from 75 to 100 a day. Not a single bud was lost through lifting. By December I was getting stems 15 to 20 inches long. This bed was thrown out on the 25th of last month, they being on the bench just one year. The total cut of the whole year was 22,000, which allowed an average of 58 flowers to each. If I had not kept accurate account I would have said they yielded far more, but it must be remembered every flower picked had a stem and thousands of buds were sacrificed. If they had been picked as we used to 15 years ago the yield would have been treble what it was. In addition to flowers I pulled off 6,000 cuttings, and for that purpose took the strong shoot that came from the flowering stem. The day we threw them out last month 175 fine flowers were picked off them. I had Daybreak and Silver Spray in the same house equally as satisfactory and planted the same day or a day or two later. In another house I had a bench of Lizzie McGowan. They were bought from a neighbor, grand plants loaded with buds; they were not planted till October 7. No bench of carnations could do better almost from the day they were planted until August last; it was a continued pick.

I have been growing carnations for the past twenty-four years. In the old days we had only La Purite, Edwardsii and Pres. Degraw. In those years I have tried several dates for the various operations and I have found September 20 to 25 to be the date for lifting. If that date found your ground parched and hard I would sooner wait ten days till we had had a rain, when the plants would lift with all their roots and fibres intact, but I don't intend to write an article on how to lift carnations. If your soil is a pure sand, as perhaps Mr. Allen's is, then it would be possible to lift them during any period of drouth, but with the great majority of growers this could not be done. Carnations in many places looked very small on August 25, but by September 25 they had quite a different appearance, having had the benefit of the best month in the whole year for growth outside. The real vital question on the subject is this: The carnations should be planted sufficiently early, so they will be well established before fire heat is necessary. If planted about September 25 they have even in this northern climate a good six weeks before any fire is needed.

WM. SCOTT.

Carnations at Kennett Square, Pa.

The Chester county carnation growers seem to be in no special hurry to get their plants in. At several places the stock is just being housed. As to the effects of the dry weather on stock in the field, the plants vary considerably in different locations. At C. J. Pennock's, where clover sod was used and the soil was frequently worked, no bad results have been experienced, and most varieties are even better in appearance than usual. At Edward Swayne's the plants made an average growth. Wm. Swayne's are rather unsatisfactory. W. R. Shelmire says that outside of the seedlings his plants are the poorest lot he has grown for years, those from high ground being the worst; while on the contrary, J. H. Ladley's worst plants are those that he planted out in low ground, in anticipation of a dry season, and these show more or less signs of bacterial disease.

Dry brown leaves and spot are very prevalent all around. Some varieties had the lower half of the foliage entirely dead while in the field, and have transplanted

poorly, so that the appearance of the plants in the beds is anything but prepossessing. As a rule the seedlings seem to be the least affected, and many of them are perfect specimens of health and vigor. The varieties that have suffered most are Wm. Scott and Daybreak, which are in bad shape generally, and Lamborn, McGowan, Keller, Stuart and Buttercup, which are poor and small in some instances and fair in others. Thomas Cartledge suffered more than usual in transplanting, but is blooming well under the circumstances. The flowers of Sweetbrier are rather disappointing, as to size, still it has made good plants and has transplanted well. Orange Blossom is throwing some very good flowers. This pretty variety deserves to be grown more extensively than it is. Those who grew it last season say that it paid them well. Puritan, Portia and Grace Wilder are generally healthy and transplanted well. Edw. Swayne evidently has great faith in Ophelia, for he has 3,500 of it planted. He states that he has found it rather difficult to move. Buttercup shows a little bacterial disease generally. There is very little rust to be found in Chester county at present.

Mrs. Fisher has obtained great popularity here as a summer blooming variety. C. J. Pennock has been putting in 30,000 cuttings of this variety, in anticipation of next season's demand. Hicks has transplanted a lot of old Fishers from the field to the benches, and they seem to take hold well, and are giving a good number of flowers, which at the present time are very acceptable. Mr. Hick's place, now in its second year, although not large is very successful, and his stock is in fine condition.

C. J. Pennock and W. R. Shelmire both give much of their attention to the raising of seedlings. One of Mr. Pennock's seedlings, a large brilliant scarlet of similar color to the Stuart, and which was spoken of favorably a year ago, still holds good. Among the most promising of the seedlings here are two very fine white ones, which have stood the test of the past year well. Mr. Shelmire has a large number of seedlings in a wide variety of colors, most of them the progeny of Caesar. The worst characteristic of this variety as a parent is the tendency of its seedlings to come variegated. The raising of seedlings is not entirely without direct pecuniary results, as there is always a good demand in the market for these promiscuously colored blooms. J. H. Ladley has a pretty magenta colored seedling of good form and very prolific, which ought to sell well, in the prevailing fashion for magenta shades.

Chas. S. Swayne is another addition to the list of carnation growers at Kennett Square. His house, which is now nearing completion, is somewhat of a curiosity, and is the cause of much speculation as to its chances of success. It is 100x50 feet in size, without partitions of any sort, and as the land lies quite level the slope of the roof is but slight. Ten thousand carnation plants and two beds of violets is its capacity. Everything will be grown in solid beds. The entire front and back may be opened to admit air, and this is the only ventilation provided for. Hot water under pressure with all the pipes overhead is the proposed method of heating.

Lady Hume Campbell is the violet planted generally by the Chester county growers, Marie Louise being unsuccessful with most of them. The plants appear very vigorous and healthy. Wm. Swayne has a theory that violets left out in the

frames until they have experienced a few good freezes are more likely to withstand disease in the houses. This gentleman plants tomatoes in his houses between the carnations, allowing one row of tomatoes to every second rafter. From four houses he picked five and one half tons of fruit last season, for which he received an average price of thirteen and one half cents per pound. This appears to be a very profitable result, but there must have been considerable interference with the spring crop of carnations, and it is a question as to the advisability of sacrificing the carnation crop for the tomatoes. The seed is sown in November, and the first fruit is ready in May, the heaviest of the crop being picked in June. The variety grown mostly is Mayflower. Trophy is said to be the best fruit when a crop can be obtained, but this variety is always uncertain as to crop. Lorillard, from the fact that it has less foliage to keep the sun off the fruit, is regarded as the best midwinter variety. Wm. Phillips has a fine house of tomatoes with fruit already well set.

Carnation Nomenclature.

The following carnations have been registered the past summer. There are quite a number of new seedlings being named this season, and in order to avoid confusion and the duplication of names growers will consult their own interests by having them registered at once. Send their names, a short description of their characteristics, and, if convenient, their pedigree, to Albert M. Herr, Lancaster, Pa.

Mapledale (Nathan Smith & Son, Adrian, Mich.).—A cross between Daybreak and Mrs. F. Mangold; pink.

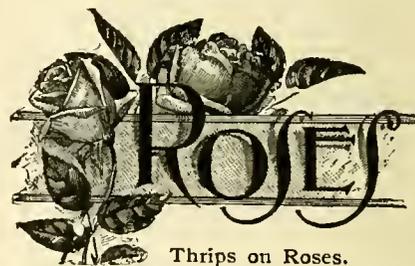
Bride of Erlescourt (Miller & Son, Toronto, Canada).

Little Gem (H. E. Chitty, Paterson, N. J.).—Striped pink on a white ground; dwarf.

Corsair (H. E. Chitty).—Scarlet; dwarf.
Minnie Cook (H. E. Chitty).—Pink and white.

Alaska (H. E. Chitty).—White.

Magnet (H. E. Chitty).—Carmine pink; fringed.



Thrips on Roses.

What will kill thrips on roses? I have tried smoking heavy, placing tobacco stems through the house, and syringing with fir tree oil, but nothing has had any effect on the thrips. W. C. W.

Replying to your correspondent "W. C. W." about thrips affecting roses, there appears to be but little chance of destroying these without sacrificing the crop of buds now on the plants, from the fact that these little pests make their way in between the petals of the flowers before it seems hardly possible to do so and when there it is simply impossible to reach them with any insecticide syringed or sprayed on them as the petals are so closely wrapped one over the other that no water or solution can enter them.



OLEANDER WITH SPREAD OF TWENTY-FIVE FEET GROWING IN A BERMUDA GARDEN.

Many years ago, when growing grapes, I had a terrible hatch of these little pests on the vines and the only way I could exterminate them was by heavy fumigating the house every night for a week in succession and even after that we had a few, presumably some later crop, but two or three nights' fumigation finished these. To do this with a crop of roses means to destroy every bud.

Some three years ago these little pests badly injured a crop of Madame Hoste in the spring; we treated them about as we did the grape vines above, at the same time picking off every bud where the calyx was expanded and burning them; this cleared them out of the house. Such treatment I know means considerable loss but I know of no other effectual means of destroying them. I should have mentioned that we found it helped matters considerably by heating a piece or pieces of sheet iron red hot, then carrying the same in a tin pan or similar thing into different positions in the house, having previously divided up one ounce of Cayenne pepper into same number of parcels, on each sheet of hot iron spreading the portion of pepper, starting at the end farthest from the door and working back to the same as quickly as possible. This should be done during the time the house is full of tobacco smoke, but if W. C. W. wants to try this he and his assistants will have to be very lively if he does not want to get choked to death, as burning Cayenne pepper is no subject to play with, and if the thrips get only a very small portion of it they will certainly choke to death sneezing. This being purely a vegetable compound a reasonable amount does not injure the plants if not allowed to flame.

JOHN N. MAY.

Black Spot on American Beauties.

"G. L." inquires what is the best treatment for American Beauties badly afflicted with "black spot." Replying to the same would say that we have tried a great many kinds of treatment and so far have been unable to find anything better than a good healthy atmosphere at all times in the house, which means that the plants should not be allowed to suffer for want of moisture at the roots, neither should they be over watered, particularly where the leaves are much stripped off the plants.

There is not the least doubt, I think, with those who have looked carefully into the subject, that a great deal if not all the trouble comes from impaired root action caused oftentimes by a sudden check, but not always so, and it is very certain that as soon as the leaves become badly affected the roots suffer to a corresponding degree, hence more care is required about the watering.

When tracing this matter down to the starting point I think it will be found that the root action has very much to do with it, which may be caused from lack of some element in the soil or an impaired constitution, which over forcing has very much to do with. Generally this trouble commences when the nights begin to get cool enough to form a little moisture on the foliage at night, this in conjunction with insufficient air and particularly allowing the temperature to run up too high in the morning before putting on air, and once it gets started it is very hard to check till quite cool weather sets in when the temperature will be reduced to normal point.

From my observations I am convinced that the hybrid tea family will not stand the strain of hard forcing without affect-

ing them; that the pure tea varieties will and I think that if we adopt a treatment a little nearer nature's laws we shall succeed better in the end. We may not produce quite so many flowers but what we do get will be of better quality and our plants will be much more healthy, which in the end will more than repay us. True, there are no two cases where the cause or effect are identical, but taken as a whole the results are generally nearly the same, but I think we can hardly arrive at a clear understanding of this trouble till we can thoroughly sift the whole thing down by scientific research, which will require our soils to be analyzed and the conditions of growing them fully defined; till then we can only partially guess at the trouble, its treatment, etc.

If G. L. will carefully look into this subject as it effects roses planted in the open ground or groups out of doors in anyway I think he will find that invariably it shows itself first after a sudden check in the growth either by too little water while the plants are in active growth or an extra amount of the same enough to sodden the ground, at least such have been my own observations, and by trying as much as possible to avoid these conditions we shall be at least doing what we can to avoid subjecting the plants to the trying ordeal. This disease is very contagious. I have recently seen a house where the American Beauties got badly affected with this disease which after a little spread to Brides and Mer-mets in the same house till they were looking as bad as the Beauties; I have seen several other cases where the effect was the same, and no chemicals, so far as I have been able to find, has any effect in stopping it.

JOHN N. MAY.

The American Rose Society.

In a late issue of the AMERICAN FLORIST, under the above heading, Mr. May gives notice of the reorganization of the American Rose Society, and outlines a few points wherein the organization can benefit its members as well as the trade at large. There are none who can question the truth of the points spoken of, or who cannot see, after due consideration of the subject, innumerable ways in which the society would be a benefit.

We are all learning something in regard to the rose every season, the beginner as well as the cultivator of a life time. We are many of us making experiments which tend to the improvement of our product and quite a few doubtless are working on the same lines. The results of these experiments and observations are valuable, having cost time and money, but after they have been conducted to a successful termination and the feasibility of the various ideas demonstrated, how far does the knowledge spread? Many times not outside of the place where they were worked out, and probably in the keeping of one or two persons or possibly they are spoken of and a fellow craftsman, to attain the same results, is forced to go through the entire experimental stages to be certain he has the idea fully grasped with the consequent loss of time and labor. Now, in the first instance had there been some recognized association for the tabulating, and outlining of experiments, as well as for keeping track of those tried, with the various surrounding causes and conditions, the duplicating of experiments would become unnecessary where the conditions are the same.

The society could greatly improve existing conditions in regard to the sale of cut roses; as is well known many growers think their stock the best going to market, and are consequently disappointed when it fails to sell, even though the reason be that better stock had the call. By establishing shows both the grower and public could be educated up to the best produced, and the former need it as much as the latter; also by encouraging the grading of stock sent to market and establishing a fixed standard for the different varieties the poorer stock would be kept where it belongs.

Then again take new varieties; what a vast saving could be effected if the faults as well as the merits of varieties being introduced were known, and how can all this and much more be accomplished better than by making the Rose Society a success?

It has been said that the formation of a Rose Society would be for the benefit of the larger growers, but nothing can be further from the truth. The large growers are much more able to stand alone, and do their own experimenting than the smaller ones, but at the same time they recognize that the interests of all are better served by uniting. If persons interested in the rose in any way whatever, would take the time to give this matter a little thought the rose society would have such a membership that it would be a success from the start, and would do more to advance floriculture than anything that has occurred as yet in America.

ROBERT F. TESSON.

Roses at Madison, N. J.

Among the Madison rose growers the most noticeable fact the present season is the general abandonment of the *Mermet* and substitution of the *Bridesmaid* as a standard variety in its stead. The *Bridesmaids* seem to do well with everybody.

At Frank L. Moore's, where this variety originated, there are several benches of two year old *Bridesmaids* and *Brides*, which promise well. These were pruned and tied down in succession from August 10 to September 10. Cousins are looking fine, as they always do at this establishment. Mr. Hugh Lee has had full charge of the house for the past six years.

Mildew has given more than usual trouble to the Madison growers this season. The establishments of L. M. and L. A. Noe, from their exposed position, have been special sufferers from mildew, but more anxiety is felt regarding the depredations of a minute insect which has been making havoc among L. A. Noe's American Beauties. The insect is greenish white in color, and is probably allied to the thrips. Its movements are very rapid, running and skipping like a flea. It attacks the Beauties when they are in a young state, disfiguring the bud so that it is rendered useless. Where Beauties are grown by the thousands, as they are here, the loss is very heavy. This insect is apparently not an entirely unknown visitor, as one grower claims to have had some experience with it on *Hoste* and *Bride* last spring. It is suggested that it may have its origin in the manure. No effective remedy has been found; burning of the infested buds is advised.

Black spot has been making terrible ravages among the American Beauties at T. J. Slaughter's, and has spread considerably among the *Bridesmaids* and other varieties. The disease attacked the Beauties in August, since which time it has defied all efforts to eradicate it. Mr. Slaughter attributes it to the sudden changes in the weather in August. Whatever may have been the cause, it has certainly been a discouraging and costly experience for him, as the plants cannot be expected to do much before January.

D. M. Shannon has added one fine rose house 160 feet long, also a violet house, and increased his shed room. The *Bridesmaid* looks well here. Stock at "Rose-dale Hill," James Hart's new place, is doing finely. Mr. Hart has three houses completed, and two more are to be built. He consigns his flowers to himself up to date.

The Growers' Club of Madison have found in the wicked commission men a fruitful subject for discussion in their meetings. According to one speaker in the last session, the commission men are getting all the milk and the growers all the water; according to another, the growers are being robbed outright. It is no unusual occurrence to find two or three rose men in a retired corner comparing their return slips; sometimes these conferences last well into the night. A committee representing the club, Messrs. Ryan, Charlton and Shannon, were commissioned to interview some of the New York wholesale men, with the purpose of getting the combined product of some dozen or more of the smaller growers marketed at 10 per cent commission, but the commission men say it is impossible for them to do this and live; so there the matter rests for the present.

Miscellaneous Seasonable Hints.

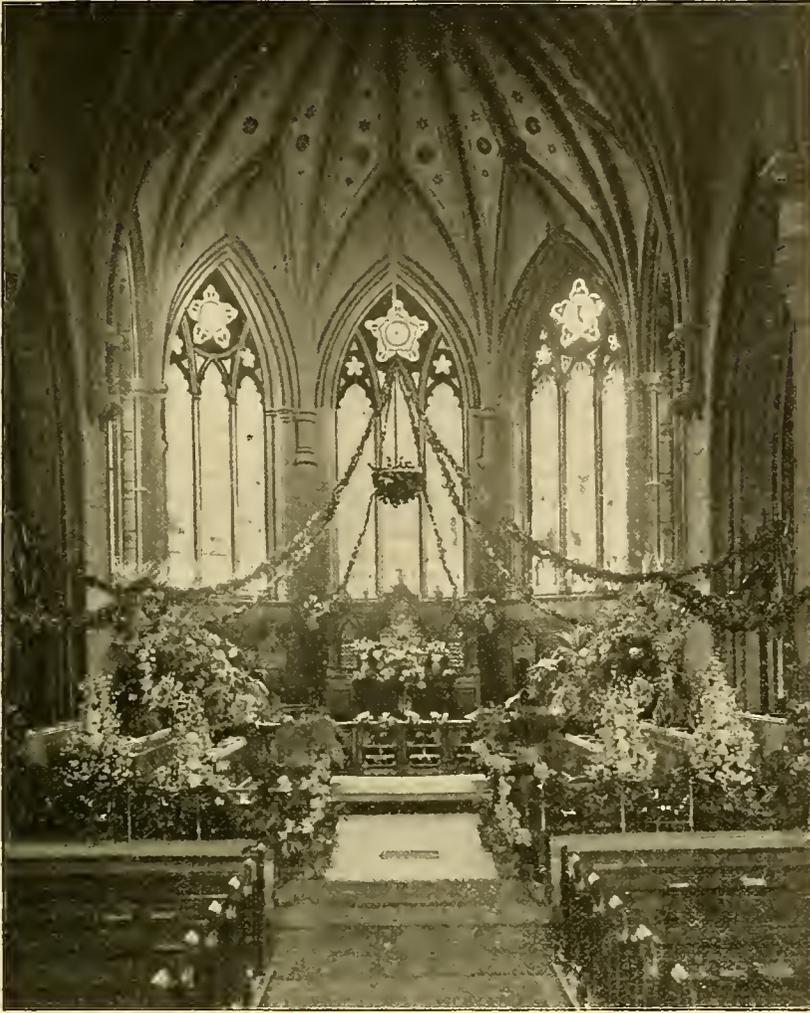
As soon as the bedding plants are destroyed or become unsightly, and they mostly are so at this writing, it will be time to plant with tulips, hyacinths, etc. Tulips have taken a tumble and so have all the other Dutch bulbs, and it is your duty to let your patrons know that a fine bed of tulips can now be furnished for a comparatively small cost. There are hundreds of people in every large city who

send away to some other city for a so-called collection of bulbs, attracted by some wonderful pictures and what appears to them a low price. These collections are largely a humbug. What your customers want is just what you buy for your own growing. At 6 inches apart a 6 foot circular bed will hold about 125 tulips at 3 cents each, which will leave you a good profit and cost the customer only \$3.75. A 12 foot bed will hold about 400 which would amount \$12. The price I quote is for the very best bulbs of the standard varieties, such as *Yellow Prince*, *Waterloo*, etc.

The soil for tulips and hyacinths should if possible be of a sandy texture; they will grow and flower in any soil, but a rich sandy soil is much the best for them. I have had occasion several times to say that for forcing hyacinths and tulips any old soil would answer the purpose and that is true, as you only want to force out the flower bud that is already formed and the bulbs will be thrown away, but with beds outside it is different. You tell your customers that they can lift the bulbs at the end of May or in June and store them away and plant again in October, so you want a rich soil that the bulbs can increase and make good bulbs for another year. In Holland they are grown in a deep black sand saturated with cow manure. Plant the bulbs deep, that is a good 6 inches down. In some way or other I always find they get near enough to the top before flowering; besides when deep the roots are not so liable to be affected by the changes of temperature in early spring. About 6 inches apart is the right distance to plant for hyacinths, tulips and narcissus. If you or your patrons want to be extravagant you can plant closer; the flowers will be just as fine. There is no need of any covering until hard freezing sets in with us about December 1, and then don't cover too heavy; 2 inches of litter from the stable is enough. They can be planted any time before winter sets in, but the sooner the better now.

It's not necessary to plant the high priced named varieties of hyacinths; a much cheaper grade will do as long as you have them in their colors. In tulips the same standard varieties that you force for winter will make the most satisfactory beds outside, with some double ones for late beds if desired. A selection can be made from the following: *Keizerkroon*, although not good as a forcer because it drops its petals, is grand outside; *Yellow Prince*, *Chrysolora*, *Waterloo*, *Vermilion Brilliant*, *La Reine*, *White Pottbakker*, *La Precieuse*, *Cottage Maid*, *Joost Von Vondel*. If you want a still greater variety there is *Prosperpine*, very fine but also very expensive, *Duchess de Parma*, *Duc d' Orange*, *Bride of Haarlem* and many others. A little later than these will come the early doubles, and very showy they are, but they should be planted in beds by themselves and not mixed with the singles. The best of them are *Imperator Rubrorum*, *Murillo*, *Tournesol*, red and yellow and *Tournesol yellow*, *Rex Rubrorum*, *Couronne d'Or*, *Couronne des Roses*, *Salvator Rosa* and others. For very late flowers, and it pays the florist well to have some plants, a few thousand *Parrot tulips*; they will come in in the latter part of May. *Yellow Rose* is another splendid late tulip, cheap bulbs but the flower is fine. If you are not cramped for room a lot of the late tulips will well pay you, for some of them can be had at *Decoration Day*, when flowers are usually very scarce.

The double and single garden narcissus



CHURCH DECORATION FOR A WEDDING

are very useful. If you are asked to plant any for a customer don't recommend a bed of them, but plant in clumps in the mixed border. They will do well undisturbed for years. Here is a brief list it will pay any florist to have on his place: Von Sion, Alba plenus odoratus, Trumpet Major, Ajax Princeps, Incomparabilis and Incomparabilis Stella, Poeticus ornatus and many others.

Your imported azaleas will soon be here. Don't fail after trimming the ball of roots down to the desired size to soak them for a minute or two in a tub of water; this is of the greatest consequence. Use a flat blunt stick when potting and ram in the soil tight. If you let it loose as you would pot many soft wooded plants the water would pass through the new earth and the roots of the azalea would get little benefit from the watering. Keep them in a cool house or pit with an occasional syringing and you need not lose one of them. WM. SCOTT.

Church Decoration for a Wedding.

The accompanying illustration was engraved from a photograph sent us by Mr. Sackville S. Bain, Montreal, who arranged the decoration. In response to our request for a description of the arrangement Mr. Bain writes:

"On the altar was placed a magnificent specimen plant of *Hydrangea hortensis*,

whose pink shade gave a softness and grace to the otherwise all white flower work, and being the center flower blended in perfect harmony with everything around. On either side stood vases of Bride roses and maidenhair fern, while over the edge of the altar and along the front hung smilax and white flowers as if planted by nature, giving it as natural an effect as possible. On either side of the altar was placed a large mound of palms, some of them eight feet high, dracænas, hydrangeas (Thomas Hogg), spireas and ferns. This clump was raised high enough to have the tops of the plants above the line of the stained glass windows, giving them a look of proportion to all around. The rails of the altar were looped with Boston laurel and placed between each loop was a spray of white flowers. The choir seats came in for a good deal of attention. Along the front were hung loops of Boston laurel, and between each loop a large spray of marguerites, while from the aisle came a plant with one above to match, each meeting and blending with natural grace. The carved end of the choir as seen in the plate was converted into a huge spire of white flowers, marguerites, lilies and green. Overhead were graceful festoons of Boston laurel; these ran into each light in the chancel and were tied with large sprays of white flowers. The center light over the steps of the altar, under which

the bridal party stood, was turned into an immense bouquet of flowers, one of our local papers puts it this way: 'The church was resplendent in everything that nature and art could bestow to make it a scene of fairyland, and through this flowery grove walked the four fairies clad in misty robes of white, while against the dark green background the white blossoms seemed as lovely and pure as a snowdrift.'

New York.

Chrysanthemums are beginning to assert themselves. It is not yet apparent what the attitude of the flower buying public is to be towards the chrysanthemum this season. Some of the leading florists maintain that it is a dead issue and that its standing in the fashionable market is settled for good. In support of their position they point to the lack of demand for the early blooms now coming in. The reception given the main crop, however, will be the test and no one can tell much about it until then. It is probably true that the demand for early chrysanthemums is now more than met and that there is no fortune awaiting development in this direction. The standard of quality demanded, too, has advanced more rapidly in the case of the chrysanthemum than with any other flower. The exhibitions are responsible for this. Buyers are looking for the grade of blooms they have become accustomed to in the shows and anything inferior to that grade is distasteful to them. There is no flower that is sold on its merits so closely as the chrysanthemum today.

Orchids are starting in well with every indication that they will be more generally used this season than ever before. *Cattleya Bowringiana* is now coming in abundantly and shows up superbly when judiciously used for decorative purposes, especially under artificial light. Magentas are all right when handled by a discreet artist. A mass of *Odontoglossum grande* containing many hundreds of blooms, set in a bed of *Adiantum cuneatum* and *Farleyense*, and backed by *Erica hyemalis* and palms shows up beautifully in Thorley's window and constitutes a novel display that attracts thousands of admirers. Thorley's new electric sign with its 130 lights makes a great show. It is the most brilliant spot in Broadway in the evening.

Warendorf is an enthusiast on autumn decorations and has few if any rivals in this line. The possibilities in this direction are well exemplified in his window on Broadway, where oak and maple boughs, fruiting shrubs and rare flowers are artistically combined to form a most beautiful picture.

Mr. John H. Taylor's regular autumn entertainment to a dozen selected friends came off at Garrison's, Bay Side, last week. From the enthusiastic account given by those who were so favored as to be present, it is very evident that Mr. Taylor's reputation as an entertainer is still in the ascendant. These occasions are always arranged so that the partakers will have a vivid recollection of them until the time comes around again to have another.

The North Hudson County Florists' Club will hold its first chrysanthemum exhibition at Haas' Hall, West Hoboken, on November 7 and 8. Over \$1,000 in money premiums, besides cups, etc., will be offered, competition being open only to members of the club. The close of the exhibition will be signaled by a grand ball.

Max Mosenthin, of New Durham, celebrated his return from Europe by entertaining the members of the North Hudson County Florists' Club at supper at John Hellstern's, on the evening of October 9.

Henry Simonson, of Brooklyn, has been getting considerable notoriety in the daily papers on account of a domestic quarrel, followed by a scuffle with the police, in which Simonson got the best of the affair for the time being, but which resulted in his being held for examination on a charge of assault.

Thomas Nilan, another Brooklyn florist, was found on the floor of his room on the 6th inst. with a self-inflicted razor gash in his throat. He was locked up to answer for attempted suicide.

Rudolph Jabn, of Nostrand avenue, Brooklyn, was married on October 10. Here we have at least one Brooklyn florist who is happy.

Philadelphia.

A great many of the chrysanthemums in this district are in a bad way. They are suffering from something and what that something is seems to puzzle the most of the growers, while there are some who shake their heads and shrug their shoulders in such an "I told you so" manner as to leave no doubt that they know all about it. The men whose plants are affected call it rust, or say they have the chrysanthemum disease. One went so far as to say it was contagious, because he noticed after the grasshoppers got into his houses the plants became affected and he thinks they must have carried it from his neighbors whose plants were down with it before his. One grower said they had caught cold from wet feet. Another claims it is the gout brought on by too much high living, in other words it amounts to this, that they have been overwatered with manure water and other like stimulants until their systems broke down. Some varieties seem to do well, while others alongside are badly affected. It is a serious matter for some, as whole benches are ruined. Mr. Heacock is cutting some very fine Mrs. Hill, superb flowers, first were cut on the 12th. Mrs. Whilldin is also in and a few Mrs. Gerard from Mr. Becker of Oak Lane. The varieties now in are Mrs. Whilldin, Mrs. Hill, Mrs. Gerard, Mme. Bergman and Kate Brown, with Ivory and a host of others in sight. \$1 to \$2.50 is the price per dozen so far.

Roses are quite plentiful; Beauties are getting into shape and \$2 per dozen is now asked for the best. Selected teas bring \$5 and \$6, while good ordinary are sold at \$3 to \$4 per hundred. For job lots \$1 per hundred is considered fair. Carnations are improving but there are still many imperfect flowers from buds formed outside and brought into flower under glass. The best bring \$1.50, the others from 75 cents to \$1. Swainsona seems to be in demand. Mr. Cliffe of Germantown has a house planted with this flower alone, in a solid bed, and it seems as though it would be a profitable crop. Cosmos is plentiful at all prices from 40 cents per hundred to almost nothing. Smilax is \$12 to \$15, asparagus \$50 to \$75, maidenhair 75 cents to \$1. Double violets are to be had at 40 to 50 cents per hundred, small as yet.

Meeting of the Penna. Horticultural Society Tuesday evening, the 16th inst, was well attended; it reminded all very much of a Florists' Club gathering as nearly everyone present belonged to that organization. The nomination of officers was postponed until November. The proposition of the Florists' Club to

guarantee a fund of \$500 to decorate the Academy of Music for the chrysanthemum show was accepted.

The committee having in charge the inter-city contest reported having had numerous replies and a probability of from eight to ten exhibits. It was proposed to make the premiums \$100 in gold instead of a vase as at first proposed, and this may be carried out. Everything points to a grand show, Mr. Gurney Hill is coming on with a host of his very best flowers and these will make a show of themselves. The building will be elegantly decorated, choice music will be rendered afternoon and evening and other new features added.

The building committee reported progress and thought the prospects for a new hall in the near future seemed bright, some \$50,000 had been subscribed and more was in sight. Dr. Mears desired the appointment of a committee to consider the advisability of dividing the society's work into sections, which might during different months in the year bring in reports and have papers read pertaining to their section, and thus have an interesting subject for discussion each evening. The plan seemed to meet with approval and a committee will be appointed to take the matter in hand. K.

Chicago.

Chrysanthemums are beginning to come in freely. A number of growers were apprehensive a few weeks ago that the main crop would not be ready for the opening of the exhibition, November 3, but there seems to be no ground for fearing now that the bulk of the leading varieties will not be in good time. Such weather as we are enjoying at present will push stock forward at a lively rate. All the retailers are carrying a good line of "mums" in stock, but the demand is hardly up to former seasons. Stock must be gilt-edged to bring \$5 per dozen at retail. For this stock the wholesale dealers ask \$3. The average price for good blooms, however, doesn't go above \$2. Southern grown stuff, of which there is more than enough, goes at \$1. In yellows the best at present is Golden Queen, with Whilldin next. Mrs. E. G. Hill still leads in pink. Few really fine white have made their appearance. Ivory in small quantity is good.

In roses the demand for Beauties is steadily increasing. A1 stock has advanced to \$2.50 a dozen; medium, according to length of stem, from \$1 to \$2. The smaller varieties are beginning to feel the effects of the increasing supply of "mums," but prices as yet are stationary at last week's quotation. Carnations are steady with good demand; exceptionally fine disbudded stock bring as high as \$2.50, average grade \$1.50. White is still very scarce. There is a good demand for violets, but no really good doubles are seen on the market; the best of them, and cripples at that, bring \$1.50.

The supplying of wood ferns for the needs of our market has grown into quite an industry. The enormous quantities disposed of is surprising; 100,000 is the average number disposed of by our commission dealers per week, over 5,000,000 in a year.

One of the notable events of the week was a wedding in Hebrew circles which was held at Concordia Hall. The bride being a sister of the Peiser brothers, of the firm of Kennicott Bros. Co., quite an array of our local talent assisted in the decorations, which were very elaborate. All the material which went into the decoration was of the best the market af-

forded. Some 2,000 fine Meteor roses were used for the tables and window banks. Geo. Bayer of Toledo, Ohio, sent on a lot of carnations especially for the purpose which were the best seen this season. Notable among them were Golden Gate, Lizzie McGowan, Wm. Scott and Hector.

The judges of plants and cut flowers at the coming chrysanthemum show will be Messrs. Wm. Scott, Buffalo; Grove P. Rawson, Elmira, N. Y.; and A. W. Bennett, Pittsburg. The floral arrangements will be judged by a committee of Chicago ladies of which Mrs. J. J. Glessner will be chairman.

Among recent visitors were Messrs. C. H. Allen, Floral Park, N. Y.; John Nelson, Oshkosh, Wis.; E. Haentze, Fond du Lac, Wis.

Buffalo.

A very pleasant and well attended meeting of the Florists' Club was held on the 9th at the residence of Mr. C. Keitch on Southampton street. A letter from Philadelphia was read asking us to make an exhibit of 100 blooms of "mums" at their show in November. The majority thought we ought to do so and a committee to arrange for it was appointed. A member expressed it as his opinion that we should not come out in the same position that we did bowling. Of course not; we don't expect it, we don't want the earth and all that there is in it. The feature of the evening was a paper read by Mr. Edw. Mensted on "Good and seasonable flowers for the year." It was a most excellent paper and should be printed. It jogged the memory of all of us on many useful flowers we are apt to overlook.

Outside stuff is clean gone now and flowers are scarce. The scarcity will soon be over for "mums" are here; every store has a few and another week will see them in abundance. The few that have been offered have sold readily at good prices so there is not the least fear that "sassiety" is going to give them the cold shoulder. If any one doubts the strides we have made in floriculture this past ten years let him close his eyes in sweet retrospective reverie and look back at his chrysanthemums of ten years ago and open his eyes on a house he has to-day; he will almost faint with an exuberance of his own self conceit. There are not many heavy events taking place as yet, but a goodly number of lesser ones bring the business up to the average for this time of year.

Mr. W. J. Palmer, Sr. met with a painful accident about two weeks ago; in excavating for a large boiler he was descending a ladder to see how work was progressing and in some way slipped and fell 5 or 6 feet, badly spraining an ankle which confined him to the house for two weeks.

A most lamentable accident befell the family of one of our most popular and well known men, Mr. John N. Scatchard, on Sunday afternoon; his wife's sister with two of his beautiful little daughters were taking a drive through the suburbs. They halted on the tracks of the N. Y. C. R. R. to let the belt line passenger train pass, but neither heard or saw a freight train come thundering along on a down grade. It threw carriage and occupants high in air and killed them all. It is the saddest occurrence of its kind that the writer ever remembers in this city.

A call at the houses of Wm. Scott this week showed me 4 houses of "inums" looking very fine; one house 100x20 filled with plants in 6 and 7-inch pots were the

most even and best looking lot I have seen. He planted them in 5 inches of soil late in June and lifted and potted them the first week of September. Many of his Lincolns and Ivories are 2 feet across, with 25 perfect flowers and green to the pot. I wish Mr. Wood would give us a cure, or better still, a preventive for the rust; it has made its appearance on several varieties.

W. S.

Boston.

Trade continues fair for the season; white flowers of all kinds are in good demand, with no heavy overstock of anything. Outdoor flowers are about wound up, although there has been no frost here until the night of October 15, when frosts more or less severe were reported from all directions. The shipping trade has started off satisfactorily, but is confined principally to points north and east of here as yet.

Chrysanthemums are coming in all colors now, and the number of varieties obtainable would make a long list. The Mrs. E. G. Hill and Yellow Queen blooms being cut by David Allan are easily the best flowers on the market at present. Roses vary greatly in quality, first-class Mermets, Bridesmaids and Brides finding a sale at figures which indicate that these three closely related favorites will remain for the present season in the position they have hitherto occupied in Boston, at the head of the list. In carnations the chief sort is last year's favorite, Daybreak.

A very fine exhibit of the late flowering varieties of perennial asters was made at Horticultural Hall on October 13 by Geo. Hollis. Included in the number were Shortii, a noble variety from Ohio; oblongifolius, from the south; turbinellus, a native of Missouri; tartaricus, from the northwestern states; Tradescanti and the garden varieties, Rubella and Fair View.

The much discussed subject of a national floral emblem was up for consideration one afternoon at the Food Fair which is now running in Boston. It was a big occasion for the ladies, who made speeches and read and recited poetry in the interests of their favorite blossoms, golden rod, arbutus, pond lily and columbine each finding warm defenders. The object and workings of the Massachusetts Floral Emblem Society were outlined and plans laid for future agitation of the subject.

Charles E. Patten was recently fined fifty dollars for malicious mischief in destroying palms and geraniums in the Public Garden. The same party was fined for stealing a plant from the same place a few weeks ago.

W. E. Doyle is fitting up a fine establishment at 306 Boylston street, which he will run as a branch store. Several other additions to the list of Boylston street florists are talked of, and this street is destined to usurp the position held so long by Tremont street as the great floral thoroughfare of Boston.

In town: Benj. Durfee of Washington, D. C.

Grand Rapids, Mich.

Schmidt Bros., heretofore engaged in the marketing business, have added to their already extensive trade that of florists and have erected for that purpose two houses, one 20x100 and one 11x100.

F. M. Strong, who has added a violet house 100x11 this summer, has taken his energetic foreman, Mr. F. M. Cunningham, into partnership, and the firm will trade under the title of the Grand Rapids Floral Co.

The Central Floral Co. have made additions to three houses, extending them 20 feet each, and a new front which will serve as a show house 65x22.

The Wealthy Avenue Floral Co. built during the summer a carnation house 120x20 and a violet house 60x12. X.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant ads. not admitted under this head.

SITUATION WANTED—By a young man in greenhouse or store. Some experience. Reference. J. M. HAFPE, Piqua, O.

SITUATION WANTED—With rose grower, or in nurseries. Good references. Address T. MCA., care John Burton, Philadelphia, Pa.

SITUATION WANTED—By young man, age 21, as greenhouse hand; steady and sober; not afraid to work. G. SPENCER, Knoxville, Tenn.

SITUATION WANTED—By young man used to work in greenhouses; references. Address NELS PETERSON, Gen'l Delivery Minneapolis, Minn.

SITUATION WANTED—As florist's assistant by lady. Experienced bookkeeper. No objection to leaving city. D. BURT, 2463 Irving Ave., Chicago.

SITUATION WANTED—By first-class florist; German, age 30, married; long experience in growing cut flowers and market plants. Address E. E., care American Florist, Chicago.

SITUATION WANTED—By a young man who is well experienced in roses, carnations, chrysanthemums and spring stuff. Address OTTO DREIER, care Charles Bauer 532 Brook St., Phila., Pa.

SITUATION WANTED—As assistant, greenhouse or store work; can take charge; experienced, reliable, abstainer; good salesman. References. Address E. P. P., care American Florist.

SITUATION WANTED—By young man, 23 years old, as assistant in private or commercial place; wages small to commence with; is well recommended. Address J. PRIDEAUX, Bar Harbor, Me.

SITUATION WANTED—By a young German; age 22; in a private or florist establishment; 5 years' experience in general routine. Best of references. Address OTTO DREIER, care R. Hunick, Newport, R. I.

SITUATION WANTED—By a young man; 1 year experience in greenhouses, last winter as fireman. Can drive and take care of horses. Trustworthy and of good habits. References. Address JAMES, 241 Fifth St., Aurora, Ill.

SITUATION WANTED—By competent single florist and gardener; well posted in roses, carnations and choice cut flowers, also pot plants; good reference; Ensl preferred; state wages. Address J. SMITH, Newportsville, Bucks Co., Pa.

SITUATION WANTED—By competent gardener and florist; 1½ experience, age 32, single; well posted in and out doors, commercial or private; southern states preferred. Address A. FLORIST, care C. S. Tait, Brunswick, Ga.

SITUATION WANTED—Practical florist fully posted on all the requisites of commercial places, general propagation, items of the nurseries, best references, wishes situation where ability and experience is required. Address PRACTICAL, care Am. Florist.

SITUATION WANTED—In florist or seed business by an energetic young, experienced Dutch bulb grower. French, German and English correspondent; also good salesman. Not afraid of any work. First-class references. PARTICULARS, care Am. Florist.

SITUATION WANTED—By November 1st; understands all branches, floriculture, management of public parks, private or commercial establishment. English, age 31; total abstainer. Best references. Correspondence solicited from any state. Address GARDENER, 109 Elm St., Meriden, Conn.

WANTED—Mrs. R. Smith of Gullford College, N. C., desires to grow surplus bulbs, hyacinths and narcissus preferred. Have grown bulbs for 20 years for pleasure; want to grow now for profit, having sale for cut flowers.

TO EXCHANGE—I would like to exchange 350 Jack roses, from 4-inch pots, for 350 good white carnations. B. J. PASSMORE, Narberth, Pa.

FOR SALE CHEAP—Large second-hand florist's Ice Box, value about \$75. VAUGHAN'S SEED STORE, 88 State Street, Chicago.

FOR SALE CHEAP—Large, new bird wood and glass florist's Refrigerator. Used at World's Fair. Price reduced to \$175. VAUGHAN'S SEED STORE, 146 & 148 West Washington St., Chicago.

FOR SALE—The most desirable location for a general greenhouse business remaining in Ohio; new dwelling three greenhouses and four acres of fine land. Address M. J. SCHOTT, Coshocton, Ohio.

FOR SALE OR TO LET—Seven greenhouses and floral store, the oldest and only first-class establishment within one hundred and fifty miles of this city; cannot grow one half the flowers demanded. A rare chance to make money in a large and the most rapidly growing city in the world. Reasons for selling, am about to retire from all business. For particulars address A. McCOMBER, 921 East Third St., Duluth, Minn.

FOR SALE, OR WOULD LEASE.

One of the best places in the state; established 25 years, with 1000 feet of glass and two acres of land. A chance of a lifetime. Electric cars pass every 15 minutes. Sewer and electric light. Everything in best running order, and well stocked. Address

P. GORMLEY, Worcester, Mass.

FOR SALE.

Stock, good will, and fixtures of established paying florist business in thickly populated portion of Philadelphia, on a good business street. Trolley cars pass the door. Attached to store are three greenhouses, containing 1400 feet of glass. A very showy place. Low rent. Will sell cheap to quick buyer. Address ARTHUR MALLON, Jr., 2432 Ridge Ave., Phila., Pa.

TO WHOM IT MAY CONCERN:

The firm of UHLMANN & HAISCH, of Memphis, Tenn., has been dissolved by mutual consent, and is succeeded by E. UHLMANN, who will carry on the business of florist in all its branches, and who will endeavor to maintain the enviable reputation gained by the late firm for high artistic work, and for elegance and promptness in the execution of all orders.

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Every Florist Claims the Best.

I am willing to have mine tested alongside of any in the market. Over a thousand florists used them last season, were pleased with them and made money out of them.

Have any quantity of fine plants ready now. They can not be offered in competition with cheap grown seed, but quality considered, are remarkably cheap at the price.

By Mail or Express, prepaid, 75c. per 100; by Express at your expense, \$5.00 per 1000. A Liberal discount will be allowed on large orders.

Geraniums.

ROOTED CUTTINGS.

The best of the better sorts. Not one that is not A1.

Labeled, \$1.50 per 100; \$12.00 per 1000. Without labels, \$1.25 per 100; \$10 per 1000.

Carnation Cuttings in season. I love to answer inquiries and give estimates.

ALBERT M. HERR, L. B. 496, Lancaster, Pa.

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Surplus stock. A few hundred field-grown plants, 15 to 18 inches high, bushy and well furnished.

1st size.....per 100 \$30.00
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3rd size....." 20.00

CASH WITH ORDER.

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PANSY SEED.

NEW CROP NOW READY. Very fine mixture of large flowering varieties and choice colors, especially selected for florists' use. 1 oz. \$3.00.

NEW GIANT PRIZE PANSY, finest strain in the market. 1 oz. \$5.00.

Low prices on Lilium Harrisii, Longiflorum, Roman Hyacinths, Lily of the Valley, etc. Special low prices on Rustic Baskets.

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75 cents per hundred; \$5.00 per thousand.

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..... BELLEVILLE, N. J.
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The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to those lines ONLY. Please to remember it.

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

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

Address THE AMERICAN FLORIST CO., Chicago.

A DICTIONARY OF BOTANICAL TERMS, giving principal terms employed in botany in five languages, being the Latin or Greek adjective translated into French, English, German and Dutch, has been received from the author, A. M. C. Jongkindt Coninck, of Amsterdam. It will be found very useful in referring to foreign catalogues, so many of these terms being omitted from an ordinary dictionary.

PART II OF THE TRANSACTIONS of the Mass. Hort. Society for 1893 has been received by us. Among much useful matter contained the report of the garden committee will be found specially suggestive.

WISCONSIN FLOWER EXCHANGE,
WHOLESALE CUT FLOWERS.
FLORISTS' SUPPLIES.

WIRE WORK, OUR OWN MAKE.
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Cycas Leaves. FRESH CUT each 75c.
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If you **BEST TRADE** you must **FINEST STOCK** keep the

We are Headquarters for **AMERICAN BEAUTIES**, as we grow 30,000 plants of this variety alone of the best quality. Also large quantities of **Brides, Bridesmaids, Albany, La France, Perles Woottons and Meteors.**

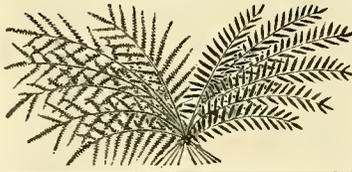
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Pink, White and Yellow,
IN ANY QUANTITIES AT SHORT NOTICE.
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ASPARAGUS PLUMOSUS NANUS.
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CUT SMILAX.
15 cents per String.
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For gilt edge mums, come to us. For good mums, for fair mums, send to us. We handle all grades and can fill your orders for any grade you want. Remember we are the mum people; making a specialty of mums at present.

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VALLEY, ORCHIDS, ROSES, FANCY CARNATIONS, OR ANY KIND OF FLOWERS,
Send your order to us, we will fill it to please you.

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Wholesale Markets.

Cut Flowers.

NEW YORK, Oct. 16.

Roses, average stock	1.00@3.00
Beauty	1.00@5.00
" Fine selected	10.00@20.00
" Meteor, Testout	2.00@4.00
" Kaiserin	2.00@5.00
Carnations	.50@1.50
" fancy	1.50@2.10
Chrysanthemums	6.00@25.00
Valley	1.00@1.50
Smilax	8.00@10.00
Asparagus	25.00@35.00
Adiantum	.75@1.00

BOSTON, Oct. 16.

Roses, ordinary	1.00@3.00
" Extra, Mermet, Brides	3.00@6.00
" " Meteors, Bridesmaids	3.00@6.00
Beauty	6.00@25.00
Carnations	1.50@2.00
" Daybreak	1.50@2.00
Chrysanthemums	6.00@25.00
Valley	3.00@4.00
Cosmos	.25@.50
Violets	.50@.75
Adiantum	.75@1.00
Smilax	10.00@12.00
Asparagus	50.00

PHILADELPHIA, Oct. 16.

Roses, small	2.00
" large teas	3.00@5.00
Beauties	12.00@16.00
Carnations	1.00@1.50
Valley	4.00
Smilax	12.00@15.00
Asparagus	55.00@60.00
Violets, double	.40@.50
Cattleyas	35.00@40.00
Cosmos	.50@.75
Chrysanthemums	10.00@25.00
Adiantum	.75@1.00

CHICAGO, Oct. 19.

Roses, Brides, Kaiserin	4.00
Testout, Meteor	4.00
Bridesmaids	4.00@3.00
Perles, Mermet, Wootton	2.00@3.00
Beauty	10.00@20.00
Carnations, long	1.25@1.50
" fancy	2.00@2.50
Chrysanthemum Mrs. E. G. Hill	18.00@25.00
" Golden Queen	18.00@25.00
" Good whites	18.00@20.00
" Southern grown	8.00@10.00
Violets, single	.75
" double	1.00@1.50
Valley	4.00@5.00
Cattleyas	35.00@40.00

ST. LOUIS, Oct. 16.

Roses, Perles, Wootton	2.00@3.00
Bride, Mermet, Albany, La. France	3.00@4.00
Kaiserin	4.00@5.00
Bridesmaid, Meteors	3.00@4.00
Beauty	5.00@21.00
Smilax	15.00@18.00
Violets, single, per 100	25c
Carnations, long	1.00
" short	.50

CINCINNATI, Oct. 16.

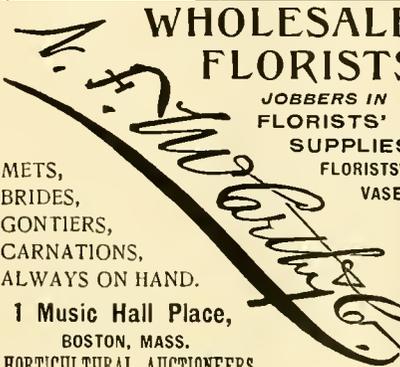
Roses, Perle	3.00
Kaiserin, Mermet	4.00
Bride, Bridesmaid	4.00
La. France, Meteor	5.00
Wootton	4.00
Beauty, Belle	15.00
Carnations	.50@1.00
Valley	4.00

BUFFALO, Oct. 17.

Roses, Beauties	10.00@15.00
Mermet, Bride, Kaiserin	4.00@5.00
Perles, Gontier, Hoste	3.00@4.00
Meteor, La. France	5.00@6.00
Carnations, long	1.00@1.50
" short	.50@.75
Valley	4.00
Violets	.75
Chrysanthemums	5.00@12.50
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D. I. BUSHNELL, St. Louis, president; S. E. BRIGGS Toronto, 1st vice-president; A. L. DON, 114 Chambers street, New York, secretary and treasurer.

THE ONION SEED situation is as usual at this time of the year, watched with much interest and the conditions for predicating an intelligent opinion on the outcome more difficult than usual. That the trade is but poorly satisfied with the ruling prices on onion seed the past few years is generally admitted. Considering the amount of seed produced, the carrying cost, the rapid decrease in value, onion cannot be said to have been an attractive investment. Will it redeem itself in the spring of 1895. That the trade itself is much to blame for this condition is true. Onion in the seed trade has been like the sugar of the grocer, a commodity to be handled at approximate cost, and strong competition has unfortunately maintained this condition of affairs even in the retail mail business. The catalogue firms of the country would be glad to have it otherwise but how to establish by concerted action fair prices has been a difficult problem. Is this the year for a change? We have advices from men well posted on the California crop of this season estimating the same as low as fifty per cent of that of 1893, and all admit a shortage of Red Wethersfield and Globe Danvers. Conceding fifty per cent. to be an extremely low estimate and the possibility of slow trade in 1895 there is to-day in view of these crop estimates and the opportunities for fair profits which have not been realized in recent seasons apparently good cause for all concerned to fix 1895 onion prices with more than usual caution, and if possible set figures that will return a good margin of profit.

Definite wholesale prices are hard to secure at this date, most houses evidently awaiting a more settled condition of affairs before fixing their rates; quotations seem to vary about as follows: Globe Danvers \$1.00 to \$1.50; Flat Danvers .75 to \$1.25. Red Wethersfield seldom quoted but occasionally at \$1.50; Strasburg \$1.00. Whites little asked for yet.

In this connection we shall print in our next issue the views of several leading houses, some of them quite radical, concerning the unnecessary low rates which have prevailed on onion seed.

THE Northrup, Braslan, Goodwin Co., have just closed a contract at Minneapolis for a new fire-proof building, 80 feet frontage by 125 feet in depth, 5 stories high, to be erected on the site of the old Market House, Bridge Square. It will make a most admirable location for this enterprising firm.

BIRCHALL BROS. & Co., claiming to be bulb, seed and plant growers and importers, Southampton, England, indulge in such peculiar methods in transacting their import and export business that transactions with them should be entered into with caution.

L. L. MAY & Co. are moving into their spacious and elegant stores 25 and 27 W. 5th street, St. Paul, Minn. They will occupy three floors and basement, 45x125 feet, and may well be proud of their new quarters.

H. R. BASSLER, formerly at Manhattan, Kansas, is now with the Lovett Co. at Little Silver, N. J.

JOHN T. BUCKBEE has returned from Europe.

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9	"	ARMS OF LEIDEN, rosy.
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8	"	COMMANDANT, cardinal.
7	"	DUC VAN THIEL, scarlet.
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10	"	JOCHT VAN DELFT, white.
9	"	JULIUS JANIN, carmine.
9	"	JOOST VON VONDEL, pink and red.
8	"	KEISERSKROON, red and yellow.
7	"	L'IMMACULEE, white.
7	"	LA REINE, white.
8	"	L'INNOCENCE, rosy.
9	"	PRESIDENT LINCOLN, rosy.
7	"	ROSA MONDI, rosy.
9	"	RACHEL KREIS, rosy.
8	"	STANDARD SILVER, red & white.
9	"	VERBOOM, scarlet.
8	"	VESTA, white.
8	"	WOUVERMAN, purple.
6	"	WHITE SWAN, white.
9	"	YELLOW PRINCE, yellow.
11	Sgl. late.	GESNERIANA, scarlet.
11	"	GOLDEN CROWN, yellow.
12	Dbl. late.	BLA GANDEUR, purple.
14	"	FEU SUPERBE, scarlet.
15	"	PURPLE CROWN, carmine.
14	"	YELLOW ROSE, yellow.
7	Dbl. early.	COUSINE, violet.
9	"	DUKE OF YORK, red and white.
9	"	GLORIA SOLIS, red and yellow.
8	"	LA CANTERBURY, white.
7	"	LADY GRANDISON, scarlet.
8	"	TOURNESOL, red and yellow.
8	"	REX RUBROKUM, scarlet.
7	"	QUEEN VICTORIA, scarlet.

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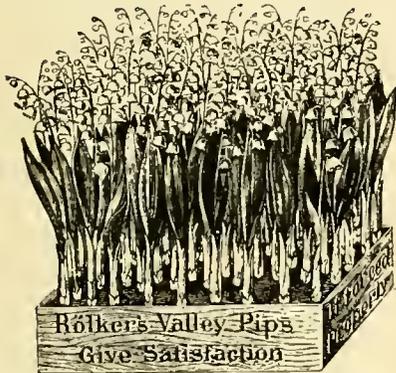
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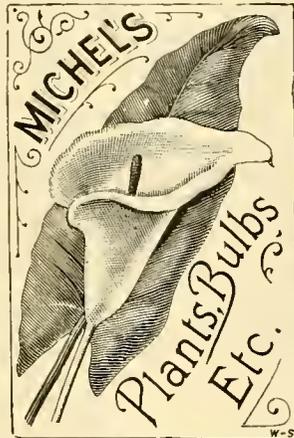
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Pansy seed, finest mixed, 2500 seed \$1.
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2000 Mrs. Fisher Carnations, strong clumps from
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Offers to the trade only good plants.

10,000 Araucaria excelsa; 30,000 Azalea Indica; 20,000
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Large, strong and healthy.

McGOWAN, SILVER SPRAY, AURORA, ANGELUS, HECTOR, GRACE WILDER, HINZE'S WHITE, }
WM. SCOTT, \$12.50 per 100 }
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Price on application.

AMERICAN BEAUTY and other Roses, 4-inch.

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**Sweetbrier
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MRS. FISHER..... \$6.00 \$50.00
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Also other standard varieties all vigorous and healthy.

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The new Carnation; pure white, deli-
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Strong field-grown plants \$3.00 per doz.; \$15.00 per
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New Garnations our Specialty

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PORTIA, ORANGE BLOSSOM, MRS. REY-
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\$5.00 per 100; good medium plants.

LIZZIE MCGOWAN, 2nd size plants, \$1.00 per 100.
All clean, vigorous, and free from disease. Cash
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3000 good field-grown CARNATIONS; at
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Cincinnati.

Chrysanthemums are the main topic, and they are fast making their appearance; they come from the far south, the east and west, and we are now shipping them north. The first to make their appearance in this market was a white seedling which was received on October 5, and sold at 20 cents. Kate Brown and Mrs. E. G. Hill were second, and arrived on October 8. Yellow Queen was expected, but did not put in an appearance until about the 12th; Gloriosum and Whilldin are now coming in good form; the prices secured by the commission houses range from 8 to 25 cents. So far the demand has been equal to the supply, but soon we expect to have every nook and corner filled with them. Business with the commission men is good, but our retail stores are not finding trade so good as they expected, and "mums" are selling slow with them. Beauties have advanced to 20 cents and are all sold as fast as received. Carnations are in good demand. Roses of all kinds are moving; shipping trade good.

The monthly meeting of the Cincinnati Florists' Society was held October 13 with only a fair attendance. It was decided that the Jabez Elliott Flower Market should be opened for one week, commencing November 14, for the sale of "mums" and other plants, also for a display of seedling blooms to be held in the society rooms.

Gustav Adrian, who for the past ten years has been gardener for Gen. Gorham, has built four greenhouses in Clifton and will now branch out for himself. Market plants and cut flowers will be his specialties.

Mr. H. A. Kresken had some heavy orders in funeral work lately. Huntsman & Co. will open a store on 9th near Race.

We regret to announce the death of Mrs. Lotta Schwarz, wife of Henry Schwarz, who died October 14.

Wm. Bertermann and Henry Rieman & Son were callers this week. Mr. B. reports business improving in Indianapolis, and predicts a grand success for their chrysanthemum show next month; if push has anything to do with it certainly will be a success. W. F. Law of Shelbyville, Ind., was in the city. G.



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BEGONIA VERNON, 2 1/2-inch. . . . 3.00 per 100
CYCLAMEN, 3-inch 6.00 per 100
GENISTAS, 3-inch. 4.00 per 100
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"HARD TIMES" PALM COLLECTIONS. For cash with order we give 17 3 and 4-in. Palms for \$3 (regular price \$4), and 34 for \$5 (regular price \$8). These comprise the best varieties, including Latanias and Kentias.

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Splendid stock and assortment.
DOZEN, \$3.00; 100, \$22.50.

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Tuberous Begonias

(GRIFFIN'S STRAIN.)



Plants in bloom, all sizes, at lowest prices.
OASIS NURSERY CO.,
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STOCK PLANTS EARLY CHRYSANTHEMUMS.

MRS. F. BERGMAN, best and earliest white, cut Oct. 4, 1894.....price 25c. each.
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These plants are dug from bench after having bloomed. Strong plants. CASH WITH ORDER.

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They are the best at the lowest prices. Trade List issued quarterly, mailed free to the trade only.

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Mushroom Spawn.

Fresh and Reliable.
\$7 per 100 lbs.
Special price on larger quantities.

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RICHMOND, INDIANA.

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Order Now.

Ready by November 15th, fine lot of

Double White Primulas

In 4-inch pots; will bloom this season. For florists short of white carnations no better substitute can be grown.

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Fine stock plants of

MRS. E. G. HILL, QUEEN, IVORY,
and 50 other varieties.

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W. C. COOK, Supt. 70th & Adams Ave., CHICAGO.

Mention the American Florist when writing to advertisers on this page.

Kansas City, Mo.

Since cold weather has made its appearance business has improved considerably. A run around the different establishments finds them all in better spirits than for some time. Jas. Payne has two houses of roses looking very well; his carnations are in fine order, and there is a good crop of mignonette and heliotrope in prospect. At Albert Barbe's roses look especially well, and he is watching his "mums" all the time.

Garner Bros. have rebuilt all their glass this summer, three each 20x75. One house is devoted to roses, which are looking fine, one to carnations and one to mixed plants. They have a fine plant of Strelitzia Reginae in flower.

Arthur Newell, who has the most fashionable class of trade in town, reports that business is getting better and keeps him hustling.

Baker Bros. have their place as usual in fine trim. Their stock of Adiantum Farleyense, some 5,000 plants in 3 to 8-inch pots, is worth going many miles to see. Roses, carnations and violets are also looking well. None of the latter are in pots. They never fail in producing good Farleyense and violets.

The Heite Floral Co. can show "mums" by the thousands, in pots from 5 to 16 inches, and looking fine. Mr. Heite wears a big smile and says he is in the "mums" this fall, 150 varieties are grown, and a large display will be made at the show, which will be given at Armory Hall by the ladies of the Lutheran Church, November 7-9. A few roses and carnations are grown, but the home establishment is mostly devoted to pot plants, the cut flowers being grown at their place at Merriam, Kans., under the charge of C. Heite Jr.

Despite the hot dry summer carnations all around are looking well. Daybreak and Edna Craig are planted very extensively. From a trip around among the boys we find prospects for good cut flowers much better than ever before. There is more than double the usual quantity of "mums," and they are in better shape. In roses there is an increase, especially American Beauty, at least 100 per cent more than ever before. Business is just fairly good, but not what it ought to be; bulb trade hardly begun.

Mrs. Hampton is again in our midst, but says it is hard to get good prices; not like ye olden time, when they got \$6 a dozen for roses that it is hard to get \$1.50 a dozen for now. Times change, and we grow older and wiser. S. M.



CLEMATIS PANICULATA, from 3-inch pots, \$5.00 per 100. From open ground, strong plants, \$15.00 per 100.
 AMPELOPSIS VEITCHII, from 3-in. pots, vines 2 to 3 feet long, at \$5.00 per 100; \$50.00 per 1000.
 HONEYSUCKLES, EVERGREEN & HALLIANA, \$6.00 per 100.
 GOLDEN, \$7.00 per 100.
 ROSA WICHURIANA & RUGOSA, \$8.00 per 100.
 General line of Flowering Shrubs and Vines. See new trade list.

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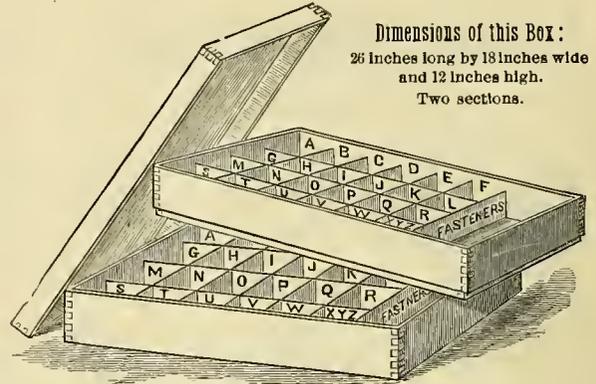
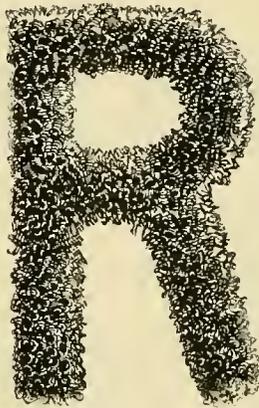
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GLASS HEADS, IN BLACK, VIOLET AND WHITE.
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EVERGREEN WREATHING, in three grades; light, medium heavy and extra heavy.

HOLLY AND HOLLY WREATHS.

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Made up, nailed or lock cornered; or material cut to size ready to be nailed up at destination.

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A Windmill
Is unreliable because it depends upon the elements for its power; hydraulic rams also depend upon favorable conditions and waste as much water as they secure. Steam pumps require skill and hand pumps demand labor and time. The

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are especially designed for pumping water, and from shallow streams or any kind of well. They are simple, safe and reliable, require no steam and have no valves. They require very little heat to operate them, and can be arranged for any kind of fuel.

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Fine plants, per 10 \$3.50; per 50 \$12.50.
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To be applied with a bulb. The only putty made to work this way for greenhouse sash.
PUT UP IN 20 lb. CANS.
Has been used by florists in this city for years. Try it and you will use no other.
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HARTMAN BROS., Florists, Allegheny, Pa.
T. H. NEVIN CO.,
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THE GREAT ANTIPEST.
For particulars, see next week.
R. W. CARMAN, GEN'L AGT.,
291 Amity Street, FLUSHING, Queens Co., N. Y.

Toronto.

On Saturday last business at the market was really quite lively and the florists having stands there appeared to be in the best of good humor. One can easily imagine what a treat it must be to a man to feel the sensation of a pocket full of money pressing against his body after having gone through a long dull season when often there was a positive vacuum in the said pockets, and no doubt this was the sensation that tickled the market on Saturday and made it brim full of smiles. The weather has been decidedly colder the last few days, some snow flurries and a sharp frost or two, and coal will now be an item in a florist's expenses. However, the clerk of the weather has been instructed not to turn on the "very cold" tap until after the chrysanthemum show is over and to spin out the Indian summer as long as possible.

The meeting of the G. and F. Association on Tuesday promises to be a lively one from the rumors I hear flying about town. There is, however, a lot of business connected with the chrysanthemum show to get through with and possibly the "lively time" may be indefinitely postponed. Perhaps it would be better so.
E.

CALLAS.

ELLIOTT'S LITTLE GEM (true), 2-Inch pot plants, \$5.00 per 100.
We still have a quantity of fine 3½-Inch pot plants of **PRIMULA OBCONICA** at \$5.00 per 100.
SEED, crop of 1894, 5c. per 1000.

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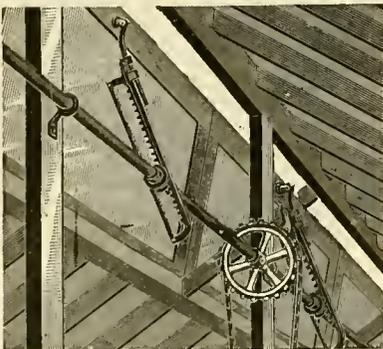
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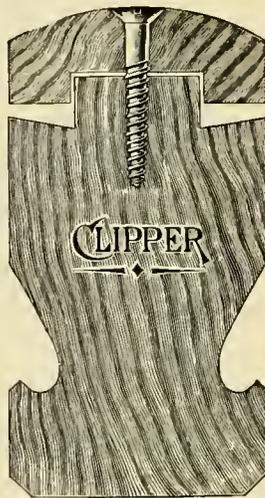
Aren't you tired going through your houses two or three times a day year after year and lifting your ventilating sash one at a time and propping them up with sticks or pots, with a chance of having sash blown off and broken glass to pay for? If you are



We have got just the thing you need, the NEWEST and BEST thing out. "The New Departure" for about half the cost of the old style. Send for Descriptive Catalogue to

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Send for price list and samples and we know you will give us an order.

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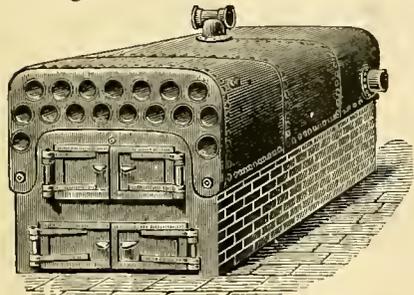
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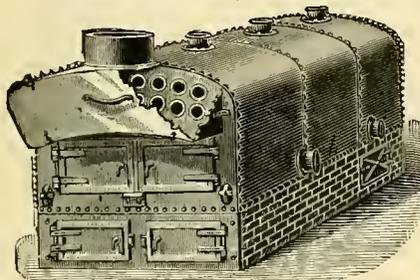
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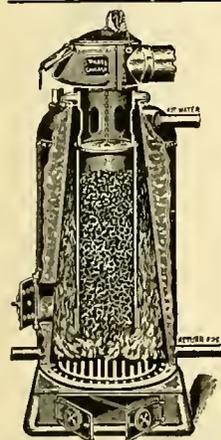
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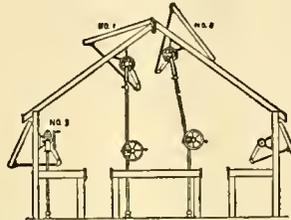
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The florist's friend in working and prices.



No repairs for 5 years. no chains to break as is the result with others.

Opens Sash uniform on 100 foot houses. A new device.

Send for Catalogue and Estimates.

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Horticultural Architects and Hot Water Engineers

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FOR ROSE HOUSES, CONSERVATORIES, ETC., ETC.



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Send for Estimates. Satisfaction Guaranteed

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WAYNE, PA.—The annual exhibition of the Wayne Horticultural Society will be held on October 30 and 31. Competition is limited to members. A number of special prizes are offered. John G. Gardner is superintendent of the exhibition.

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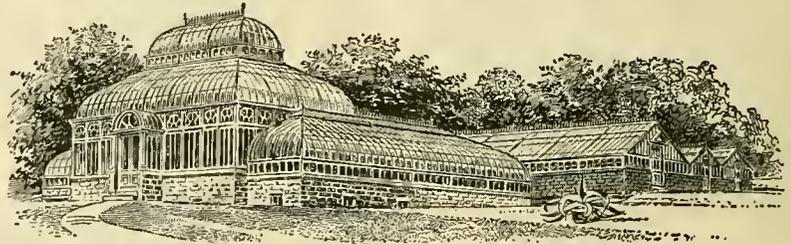
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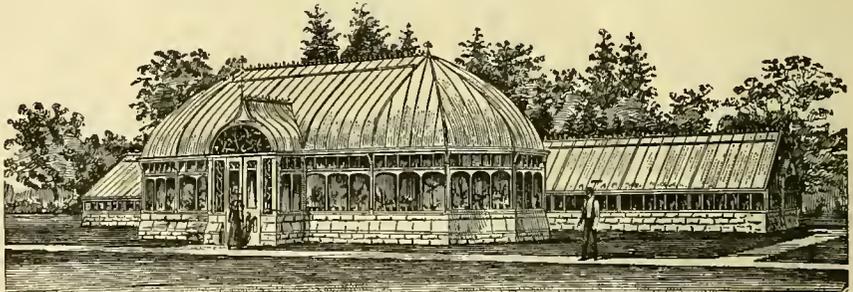
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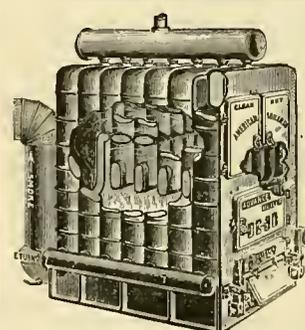
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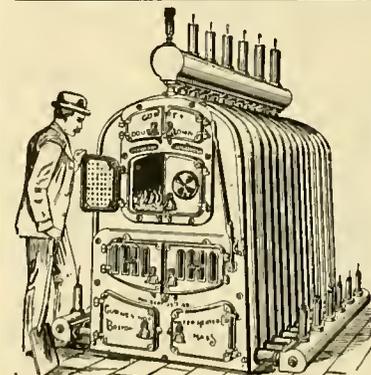
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Vol. X. CHICAGO AND NEW YORK, OCTOBER 27, 1894. No. 334

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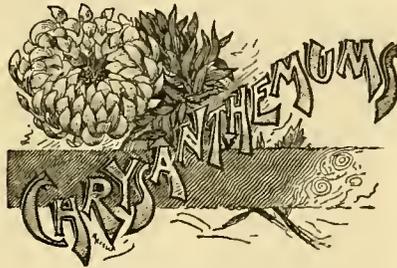
SOCIETY OF AMERICAN FLORISTS.

J. T. ANTHONY, Chicago, president; ROBERT KIFT, Philadelphia, vice-president; WM. J. STEWART, 67 Bromfield St., Boston, Mass., secretary.

The new officers to be installed Jan. 1, 1895, are: ROWEN LONSDALE, Chestnut Hill, Philadelphia, president; E. C. REINEMAN, Allegheny City, Pa., vice-president; WM. J. STEWART, Boston, secretary; H. B. BEATTY, Oil City, Pa., treasurer. The 11th annual meeting will be held at Pittsburg, Pa., August, 1895.

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Chrysanthemum Notes.

There is but little that can now be said further in regard to the culture of the chrysanthemum for this season, for the blooms are very nearly ready for market or for exhibition, except that care must still be taken in the ventilation and watering, for a good bloom can yet be ruined. But there is one thing that can be done now that may materially help the crop for next year, and that is the selection of the stock plants. Some growers make it a practice to bed out a plant or two of each variety in the open ground in the spring, and allow them really to take care of themselves during the summer and early fall, and then place them in a cold frame that will keep them safe from frost until they are wanted to propagate from, and then bring them into the house. They argue that by this method they get stronger and more healthy cuttings than they would from the plants which they claim have been forced by high culture so much that their vitality is impaired. Now we have always believed that this is a wrong theory to work on, and does not produce any better stock, and we all know that standing still really amounts to falling backward in this bustling world. It might be all right if the plants were well cared for during the summer and the best of the stock selected for this purpose, but, too often, alas, the plants that are set outside for stock are those that are left after planting or the sales are done, and consequently the weakest and poorest of the whole lot. We most decidedly believe in selecting the best plants in the bed for stock purposes, so when the plants are in flower take a clean label and mark the strongest and those that produce the finest blooms for the stock plants to propagate from next year, and you will find that all the weaker varieties will steadily improve in vigor rather than deteriorate as some have said. This matter first came to our notice some years ago when we grew exhibition plants; of course the best plants, consequently the strongest, were always carried to the show and were usually sold or given away rather than go to the expense of getting them home, and after two or three years of this custom the varieties on which we always counted to produce a fine, strong plant began to lose their health and strength and were discarded

as run out. But after we began to grow blooms on benches and select the strongest for our stock, these same varieties again picked up and showed their old time vigor.

Next week will see the opening of the exhibitions, and the following two weeks will see every city of any size in the country report the result of their exhibition, so a word to those intending to exhibit may not be amiss. The names of the judges you now probably know, and if you don't a line to the secretary will inform you, so make the resolution now and keep it, if your habies don't happen to receive the first prize that you will not stand around and kick and find fault with the decision of the judges. If you don't think the judges are capable keep your blooms at home or send them to some other city where there are judges whom you think able to fill the positions, but when you place your blooms or plants in the allotted place in the exhibition hall you virtually say that you are willing to abide by the decision of the judges, and if you don't land on top say nothing, for if you begin to complain you lose the respect, not only of the management of the show, but of all your friends beside. And now a word to the winners. Bear your honors as meekly and quietly as possible. We know what it is, for we have occupied both positions, winner and loser, and when we were fortunate could hardly help feeling elated. But when you win be sure and remember one thing, and that is that you do not raise the standard of your own blooms or win the regard of anybody by depreciating the stock of your less fortunate competitor. Always keep in mind that there is another year coming and another day when the under dog may be on top and you will be the one to wander home with head and tail hanging down. So bear your honors as quietly and gracefully as you can and be careful of that unruly member and then you will never have to eat an unwholesome dish of crow. ELIJAH A. WOOD.

A Chrysanthemum Interview.

"Good morning Mr. Hill, we notice that the variety Mrs. E. G. Hill varies somewhat in earliness with different growers. Can you explain why?"

"No really good grower who is up to date, and desires first quality blooms, should set his plants in the solid border, for the reason that the roots go down into the cold earth and get beyond the control of the grower. This applies to the late as well as to the early sorts. The use of the two methods accounts for the wide difference in time of flowering of the variety Mrs. E. G. Hill, and we are surprised that so good a grower as Mr. Edwin Lonsdale should use the solid bed method. As a matter of fact Mrs. E. G. Hill was cut in a number of places from the 5th to the 10th of October and that

GLENFIELD, PA.—Chas. Crow has started in the business here.

BUCKSPORT, MAINE.—Mr. F. H. Moses has been seriously ill with the gripe. He states that the past season at Bar Harbor has been the best in his experience.

LOUISVILLE, KY.—Business has picked up wonderfully the past week. Chrysanthemums are very plentiful and we have ready sale for them. Yellow is the predominating color this fall. S. J. Thompson had some large funeral orders the past week and wedding decorations. We predict a fine trade this winter.

in considerable numbers, but in every instance they were grown on shallow benches and not in the solid border. Our experience has been that by planting in solid beds you may retard a variety a considerable period of time but in no instance can you cut as fine blooms as when grown on the bench system, because with the latter you have absolute control of the root action of the plant as well as of the top."

"Do you not know any one variety that would be benefited by the solid bench system?"

"I do not know of one."

"Do the flowers grown in solid beds have any more substance than those grown on benches?"

"They do not have as much substance and do not last as well; you might as well expect to get an athlete into the best physical condition by keeping his feet out of the window and his head in a hot room as by growing your 'mums' in a cold damp solid border."

"Tell us your experience in regard to feeding."

"In the applications of manures you can cater to the wants of the plants when on the bench far better than when grown in the solid borders, for in the latter the drainage may be deficient, and in that case a stimulant could only work harm; the application of manure or manure waters tends to sour the soil unless conditions are all favorable, and especially is this the case where the variety is of dense growth and clothed with foliage down to the ground. We begin feeding when the buds are set, and we give manure and other dry or solid fertilizers the preference for early feeding, as at this stage of their growth they get an abundance of water, and consequently the stimulant is not taken up so rapidly and in such quantity as if liquid manure is applied directly; later on manure water is very useful."

"Tell us about the application after the plants show color."

"In my judgment most growers overdo the matter in the way of feeding; they give too heavy doses and apply it too frequently. A case in point: last week one of our benches containing a considerable number of varieties in less than two hours after the application of what we considered a moderate dose of manure water had developed bad cases of petal 'burning' on nearly all the varieties on which were flower buds from $\frac{1}{2}$ to $\frac{1}{3}$ developed. A great many growers have thought that this damping of the petals was caused by too much moisture in the house, but from careful observation we are convinced that it is produced by over-application of liquid manure and too gross feeding."

"Does not this experience tend more to prove that feeding should be discontinued after the plants show color than that there is any special danger of overfeeding in general?"

"Unquestionably it does, and we shall promptly discontinue the use of any and all fertilizers after the buds begin to show color."

"How would you measure the amount of manure water or other stimulants to be given to chrysanthemums? What is the limit of the quantity that can be used to advantage?"

"This can only be determined by a study of the general characteristics of a variety, its growth, leafage and texture, and as in the case of individuals, food must be administered only as it can be thoroughly digested; when the root action is perfect and the soil porous and sweet a

larger amount of nutriment may be administered and can be readily assimilated. Many more chrysanthemum flowers are spoiled by over feeding and over watering than by the lack of sufficient food. The Chinese varieties are very quickly overfed, and some of the Japanese are quite as susceptible. We know a case in point where a large crop of Mrs. E. G. Hill had been ruined by simply over watering upon imperfect drainage. The injury showed in the lightening of the leaf and in its becoming diseased, resulting in a fungous growth which eventually weakened the plant and robbed it of half its substance and beauty; the leaves presented the appearance shown in the engraving on page 263 of your issue for October 20. Last year our plants of Mrs. Hill ran up to about 6 or $6\frac{1}{2}$ feet; we noticed that it took up large quantities of water and made rapid growth; this year we gave it what would have been considered an under-supply of water, while still never allowing it to flag, and the result is fine stocky plants 4 feet and under in height, with not a trace of disease or thinness of texture. Of course if planted in April or May it will run up in height under any form of culture. In a last reference to this variety it may be useful to note that very cool treatment, or growth in a solid border, deepens its color very much and brings out an objectionable violet tint, while an early ripening of the wood and quick growth render it the soft pearl pink that it should be; it received honors in England early in this month and is described as a 'beautiful silvery grayish bluish colored Jap.'

"One of the causes of weakness in the chrysanthemum is the fact that most growers perpetuate their stock by propagating from plants which have been forced and fed and grown unnaturally under glass. We attribute much of our success thus far achieved in growing chrysanthemums to the fact that we propagate from stocks that are grown naturally in the open ground and that never have been inside of the glass structure, save when propagated. So much importance do we attach to having naturally grown plants for stock that we go to the extra expense of purchasing the novelties in sufficient quantity that we may have two sets, one for the production of flowers and the other to be grown naturally outside and from which to propagate.

"Another important factor in the growing of chrysanthemums is to give all the air possible, and the ventilation should be perfect. With this end in view the ventilation should be so arranged as to give a continual current of fresh air during the summer months. This does away with the two story plants complained of by so many. The aim should be to ripen up the growth as the plant progresses and to give only such quantity of food as the plant can readily assimilate during its progress."

"What are the general characteristics of the varieties that will stand the heaviest feeding?"

Those of medium, short-jointed growth with moderate, medium sized leaves and that show considerable substance of texture in the leaf."

"What are the general characteristics of the varieties that you would feed moderately?"

"Varieties with moderate constitution, the leaves of which are thin in texture. This class is very easily injured by over-doses of water, and we have known instances where the health of hundreds of

plants has been destroyed by simply over watering with pure water."

How would you feed the coarser growing varieties?"

"The coarser growing varieties, if over fed, tend to coarseness not only of leaf but also of petal and flower, whereas if grown according to natural methods without much stimulating or fertilizing material these otherwise coarse growers often make well finished flowers. Take for instance the variety Challenge, this is very susceptible to injury at the time of setting its buds, and if either over-fed or overwatered at that stage of its development the buds turn brown and wither. Some writers attribute the blasting of buds at this juncture to the result of insect agency, but we have demonstrated that it comes from the application of fertilizing material at the time the bud is just forming."

"Do you think the chrysanthemum has reached perfection and completion?"

"No, I do not. There is still plenty of work to be done; we are yet in quest of the ideal pure true pink; and we very much need a full assortment of clear colors in October flowering varieties of size and form as found in the later varieties so that we may have our exhibitions beginning in October and not be under the necessity of holding all the shows during the first two weeks in November; I do not suppose that the rose growers are praying for this sort of an extension but they may as well make up their minds to surrender October and half of November to the 'mum.' To mark the progress recently made, we predict that the additions of 1894 will mark an epoch in the culture of the chrysanthemum; Queen Elizabeth (Owen), a charming anemone; John Bunyan (Owen), golden anemone; Mayflower, (May); Mrs. Magee (P. & M.); Mrs. G. Bramhall, (P. & M.); Challenge, (Hill), Inter-Ocean, (Hill); Robt. Owen, (Owen); Pitcher & Manda, (P. & M.); Dailedouze (Hill); Mme. B. Giraud, (Calvat); Minerva, (May); Mutual Friend, (Mann Bros.); Marie Louise, (Witters'aetter); Judge Benedict, (Spaulding); even at this date show marks of extraordinary excellence over previously existing sorts. The exhibitions of the Columbian year will long be remembered for the grand novelties presented to the public."

National Chrysanthemum Society.

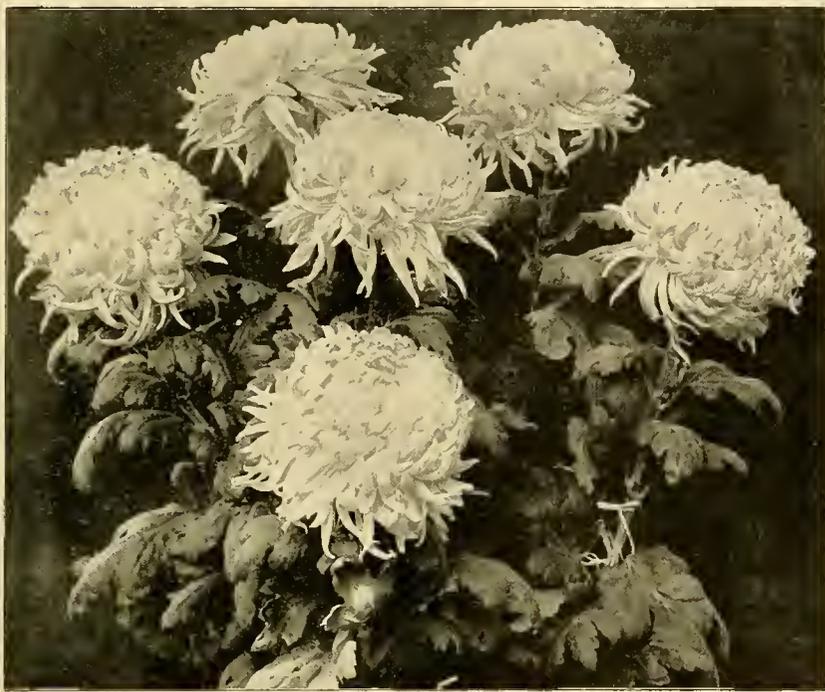
In accordance with the announcement in our issue of October 13 the committees of the National Chrysanthemum Society of America met October 20 at the several points named to pass upon the merits of new early varieties submitted for judgment. While the reports are not yet in such shape as to make it possible to announce the awards made we append reports as to the flowers shown.

AT NEW YORK.

The announcement that the committee of the Chrysanthemum Society of America would be in session for the purpose of examining seedlings on October 20 brought out an exhibition of some fifteen new kinds from several of the large growers. Among the most promising varieties shown were the following:

From Pitcher & Manda, Short Hills, N. J., J. E. Lager, a large deep yellow Japanese in the style of Jos. H. White; J. H. Troy, a creamy white incurred Japanese, an immense flower full and deep.

From Thos. H. Spaulding, Orange, N. J. Mrs. J. W. Parker Jr., Japanese incurved, color pæony pink with silvery reverse; a very solid bloom with the char-



NEW EARLY YELLOW CHRYSANTHEMUM MISS M. M. JOHNSON

acteristics of a good shipper. Edith Smith, a large Japanese reflexed, white suffused with faint lilac pink, appeared rather soft.

From J. N. May, Summit, N. J. Venus de Medici, violet rose color; florets mostly tubular, foliage handsome. Sunrise, Japanese incurved; light terra cotta with oak reverse. Nemesis, white reflexed, long petals. Daybreak, Japanese incurved, a lovely shade of delicate pink, unlike anything yet introduced. Only one flower of the latter was shown, its blooming time being already past.

From Chas. Bird, Arlington, N. J. Lettie Bird, reflexed yellow in the way of President Hyde. Size scarcely large enough for present demand. Sallie B, white with yellow center; similar in form to Lettie Bird; also under size.

From Richard Gardner, Newport, R. I. Nada, The Lily, white Japanese reflexed; petals long, drooping, irregularly twisted.

Wm. Tricker, Clifton, N. J., showed blooms of Chas. Davis, a sport from Vivian-Morel; color apricot yellow.

AT BOSTON.

There were but three entries of seedlings at Horticultural Hall under the Chrysanthemum Society of America arrangement. T. D. Hatfield entered two and Fred S. Walz of Cincinnati, O., one. Mr. Hatfield's were Mrs. T. D. Hatfield, a fine lemon yellow incurved, and Columbine, a bronzy red Japanese incurved. The Mass. Horticultural Society awarded a first-class certificate to the Mrs. T. D. Hatfield. Ella Walz was creamy white in color in the way of Marie Louise, but much inferior to that variety. Pitcher & Manda exhibited two seedlings, No. 561, in the way of Ivory but not so good, and No. 21, a large full double yellow of fair quality as shown. J. Brydon exhibited two vases of magnificent chrysanthemums, one of Ivory and the other H. L. Sunderbruch, the latter one of the 1893 introductions. It is a very beautiful and distinct yellow Japanese, and as shown it

made one of the finest vases of chrysanthemums ever seen in this hall.

AT CHICAGO.

E. G. Hill & Co. of Richmond, Ind., were the leading exhibitors here. The varieties were as follows:

Miss M. M. Johnson, a golden yellow, of perfect color for so early. The flower was fully developed, foliage good and carried well up to the blossom, size of bloom extra for so early. Three stems were shown, each bearing three fine blooms, an evidence of much vigor. Awarded certificate.

Majestic, a sport from Mrs. E. G. Hill, pale salmon pink in color, very close to the shade of the Daybreak carnation. Identical with Mrs. Hill except in color, the advantage in color being that it was free from the blue tint that sometimes detracts from Mrs. Hill. A certificate was awarded subject to the approval of the society, as while a new variety it was not a seedling.

Sea Shell, a majenta pink, straight tubular reflexed, not fully developed. Further trial advised.

Allamanda, yellow reflexed. No place for it with Miss M. M. Johnson in the field.

R. Witterstaetter, Cincinnati, showed Debutante, white, center incurved, outer reflexed. Not far enough developed to warrant passing an opinion. Further trial advised.

From Fred Walz, Cincinnati, came Ella Walz, a cream white reflexed. A pretty thing but in the opinion of the committee there are better ones now in commerce. Rosa Kupferle, majenta pink, type of Mrs. Irving Clark. Not developed enough to show its possibilities.

AT CINCINNATI.

The only exhibitor here was E. G. Hill & Co. of Richmond, Ind. There were four vases containing 6 blooms each.

Miss M. M. Johnson, which was recommended for a certificate, is a yellow, somewhat resembling Challenge in color and

form. Foliage heavy and close up to flower.

Majestic, a sport from Mrs. E. G. Hill, nearly white, of the same form and habit as Mrs. Hill. Considered by the committee to be no improvement upon that variety.

White Cloud, a Japanese variety somewhat resembling Mrs. Langtry but much earlier.

Allamanda, a good yellow very much in the order of Whilldin but deeper shade. Probably a good early and worthy of trial though probably not so good as Yellow Queen in texture, form and size.

AT PHILADELPHIA.

There were but three varieties of chrysanthemums for the special committee of the Chrysanthemum Society to pass judgment on.

Of these, two were from Hugh Graham of this city.

Daybreak is a very light, delicate pink, resembling Daybreak carnation in shade. It is of the Japanese type, somewhat globular in form, about 6 inches in diameter, full and of excellent substance. Certificate recommended by the committee.

Princeton, a bronze or old gold shade, lighter than and somewhat similar to Source d'Or. Japanese type. Flowers graceful in form, about 8 inches in diameter, and foliage handsome. Desirable on account of its earliness.

Ella Walz, sent by Fred Walz, Cincinnati, O., is a creamy white of Japanese type. A promising variety, its chief merit being its earliness. Further trial recommended.

Judging the Seedlings.

It seems to me that the committees of the Chrysanthemum Society should be prepared to pass upon seedlings about November 1 also. By the present program they do not meet again till November 6. It is rather a long stretch between October 20 and November 10. What do they expect us to do with seedlings that are at their best between those dates.

J. S. WILSON.

A Fable by Aisel.

ED. AM. FLORIST: There is an old saying about burning a candle at both ends to the effect that although you get an abundance of light, it is very destructive to the candle. Some of our chrysanthemum specialists seem not only to be burning the candle at both ends but are taking out a large section from the middle to grace their cow hides with.

Last winter I was feeling awfully poor—hadn't made coal hills, and Charlie Foolemall had just busted and stuck me for,—well never mind how much; but it was more than enough. Just at this time along comes our smooth friend Jones. Says he, "Hello Aisel! How's biz?" Says I, "Rotten." Says he, "What's prospect for next year?" Says I, "Rottener." Says he, "Grow any mums next season?" Says I, "Nixey! Got enough." Then he got right down to business and if he isn't a slick talker I'll never kick again. Says he, "You're way behind the times, Aisel, my boy; 'mums' are just what you want to grow, but they must be 'mums' with a big C. You want to throw out all those hack numbers and stock up fresh. What you want is to get in ahead of the other boys and have the market all to yourself. Then when the other fellows come in you want to be on deck with something bigger and better than they've got and you'll swamp 'em. They won't be in it and you'll make a barrel, see!"

Now if there is any one thing I have

longed for during the years I have been peddling flowers around town and cursing the commission men, it is to have the market all to myself. Jones saw at once that I was hooked and proceeded to load me up with his stuff at about the rate of one dollar per leaf with a little cast iron stem thrown in for good measure. He sold me two hundred of one kind, warranted four weeks earlier than any other on earth (market all to myself on this one sure), there was a real genuine yellow, yellow one, and a white that wouldn't go into a bushel basket without crowding, and a hairy one he called W—sh H—sing and declared would beat any Kansas senator for beard, and a dozen others. The bill was \$349.75, but I wanted and was bound to have the market all to myself, so paid it and stood off the coal man another six months.

It wasn't long after this that I found out that Jim Silly and Hank Blumenschnitter and Dumm Kopf had all been loaded up by Jones just as I had been, but didn't mind that very much as we fixed up a pool and arranged to divide the market so I would still have a quarter of it all to myself.

Well! the other day I cut my first lot of blooms and they were fine as silk, must give Jones credit to that extent. I sized them up and as I didn't want to be too hard on the boys, though I had the market all to myself, decided to let them go for \$12 per dozen. J. T. Anthemis, over on Wabash avenue, is an old customer of mine and an awful nice fellow so it was no more than fair to give him the first show. Was considerably surprised when I went in, to see his store full of fine "mums," and I'll be hanged if he would look at mine. Says he, "Aisel old man, I've no doubt your stuff is fair, but I've made a contract for daily shipments from Jones, and of course you are not in it with him. He's got the original stock and grows for exhibition, whatever he gets on the side is clean profit, and he lets me have this stuff at a price that would knock you silly." You bet I was knocked silly, for every place I went they sang the same song. I even tried a Greek and he said "You no gooda; me buya da 'mum' from Jones." I left the stuff at a commission house and it is all there yet.

I hear that Brown and Robinson have been seduced by Jones' bad example and are turning the same tricks.

Now, Mr. Editor the above is no josh and I'll leave it to you if it doesn't come pretty close to a confidence game.

I shan't have the market all to myself but I'll have Jones. Blumenschnitter and I have got 24 of those new yellow chrysanthemum bugs and we're going to breed 'em and turn the whole colony loose in Jones' greenhouses. Besides that we are getting up a boycott a la Debs, and will stop the paper if you print any more of Jones' adv's.

Yours truly, his

M. X AISEL.
kick

P. S.:—Have just stood off the coal man another six months.

Chrysanthemum Mrs. E. G. Hill.

I see that Mr. Lonsdale is apparently not pleased with chrysanthemum Mrs. E. G. Hill. I wish he could see the house full of it which J. D. Brenneman is now cutting here—magnificent flowers on tremendous stems, clothed with foliage down to the ground. For an early chrysanthemum it beats everything I have ever seen, "out of sight." Mr. Brenneman has been cutting the flowers for about ten days. For the editor's delectation, I cu-

close a blue print from a Kodak negative, made October 17. The cheerful face of the grower, Mr. Papsch, will help give a comparative idea of the size of the flowers. [The photo showed some grand blooms.—Ed.] So far as I can see, there is nothing the matter with Mrs. E. G. Hill as an early "mum;" and the way the flowers sell in Philadelphia, Mr. Brenneman seems satisfied with, too!

J. HORACE MCFARLAND.
Harrisburg, Pa.

Coming Exhibitions.

- WAYNE, PA., Oct. 30-31. Fall exhibition Wayne Hort. Society. John G. Gardner, Supt., Villa Nova, Pa.
- SAN FRANCISCO, Nov. 1-3. Chrysanthemum show California State Floral Society. Mrs. T. L. Walker, Sec'y, 2549 Piedmont Ave., Oakland, Cal.
- CHICAGO, Nov. 3-11. Chrysanthemum show Hort. Society of Chicago. W. C. Egan, Sec'y, 620 Dearborn Ave.
- BALTIMORE, Nov. 5-10. Chrysanthemum show Gardeners' Club of Baltimore. Wm. Feast, Sec'y, 228 N. Charles St.
- MILLBROOK, N. Y., Nov. 6-7. Chrysanthemum show Millbrook Hort. Society. L. Kennedy, Sec'y.
- NEWPORT, R. I., Nov. 6-8. Chrysanthemum show Newport Hort. Society. Alex. MacLellan, Sec'y, Ruggles Ave.
- BOSTON, Nov. 6-9. Chrysanthemum show Mass. Hort. Society. Robt. Manning, Sec'y, Horticultural Hall.
- PITTSFIELD, MASS., Nov. 6-9. Chrysanthemum show Berkshire County Gardeners' and Florists' Club. W. M. Edwards, Sec'y, 103 Howard St., Pittsfield.
- ST. LOUIS, MO., Nov. 6-9. Chrysanthemum show St. Louis Florists' Club. E. Schray, Sec'y, 4101 Pennsylvania Ave.
- INDIANAPOLIS, IND., Nov. 6-10. Chrysanthemum show Society of Indiana Florists. W. G. Bertermann, Sec'y, 37 Massachusetts Ave.
- PHILADELPHIA, PA., Nov. 6-10. Chrysanthemum show Pennsylvania Hort. Society. D. D. L. Farson, Sec'y, Horticultural Hall, Broad St.
- LOUISVILLE, KY., Nov. 6-10. Chrysanthemum show Louisville Florists. H. Nanz, Sec'y, 582 Fourth Ave.
- NASHVILLE, TENN., Nov. 6-10. Chrysanthemum show Nashville Floral Society. R. B. Currey, Sec'y.
- HAMILTON, ONT., Nov. 7-8. Chrysanthemum show Hamilton Agric. Society. Walter H. Bruce, Sec'y.
- NEW HAVEN, CONN., Nov. 7-9. Chrysanthemum show New Haven Chrysanthemum Club. Mrs. E. P. Morris, Sec'y, College St.
- FREDERICK CITY, MD., Nov. 7-9. Chrysanthemum show Frederick County Floricultural Society. C. E. Kemp, Sec'y.
- OSHKOSH, WIS., Nov. 7-9. Chrysanthemum show Oshkosh Floral Club. Mrs. G. M. Steele, Sec'y.
- DENVER, COLO., Nov. 7-10. Chrysanthemum show Denver Florists' Club. Adam Kohankie, Sec'y, L. B. 375, So. Denver, Colo.
- PROVIDENCE, R. I., Nov. 8-10. Chrysanthemum show Rhode Island Hort. Society. C. W. Smith, Sec'y, 61 Westminster St.
- NEW BEDFORD, MASS., Nov. 12-14. Chrysanthemum show New Bedford Gardeners' and Florists' Club. Fred Puckering, Sec'y.
- MONTREAL, Nov. 12-14. Chrysanthemum show Montreal Gardeners' and Florists' Club. Fred Bennett, Sec'y, 62 Aylmer St.
- WORCESTER, MASS., Nov. 13-15. Chrysanthemum show Worcester County Hort. Society. Edw. W. Lincoln, Sec'y.
- SPRINGFIELD, MASS., Nov. 13-15. Chrysanthemum show Hampden County Hort. Society. W. F. Gale, Sec'y, 331 Main St.
- MILWAUKEE, WIS., Nov. 13-16. Chrysanthemum show Milwaukee Florists' Club. A. Klokner, Sec'y, 219 Grand Ave.
- MOBILE, ALA., Nov. 15-17. Chrysanthemum show Mobile Chrysanthemum Club. Miss Mollie Irwin, Sec'y.
- TORONTO, ONT., Nov. 20-23. Chrysanthemum show Toronto Gardeners' and Florists' Ass'n. A. H. Ewing, Sec'y, 85 Carlton St.

Exhibition Advertising.

The management of the Indianapolis show is sending the newspapers advance notices on printed slips accompanied by a card bearing the following:

On presentation of this voucher at the Box Office, Tomlinson Hall, November 6, 7, 8, 9 or 10, the bearer will receive five tickets of single admission to the Indianapolis Chrysanthemum Show of 1891. This is given in consideration of notices published. Please endorse the title of newspaper and name on back before presenting.

We presume this is intended for papers in the smaller places throughout the state as the Indianapolis show draws consider-

able patronage from outside points. For that purpose it would seem valuable, though it would hardly be judicious to use such a card with the local press.

In sending complimentary to the local papers it is well to send each important member of the staff of each paper a season pass upon which his own name appears. It is generally more gratifying to the recipient to have such a one than one bearing simply the name of the paper. The number of season passes should be determined by the size of the staff of the paper and the editorial assistants should not be overlooked as each one has certain discretion in the use of the blue pencil. These season passes should be supplemented by a liberal bunch of single admission complimentary to each paper. The editor and his assistants each have a circle of friends whom he expects to be able to provide for. They have become so used to this that it seems a right to them and they will feel disgruntled if sufficient tickets are not supplied. The people's eye go to are practically professional deadheads and never pay admissions any way so nothing is really lost to the management and the good will of the press is vital. And don't forget the reporter. See that he or she has tickets for friends and a flower or so when they visit the show. Flowers should be provided for this purpose. The essentials for liberal press notices are first the good will of the editor and his assistants that a reporter may be sent to write up the exhibition and with instructions to "give it two columns if worth it," and second the good will of the reporter that he may exert himself to write an attractive story and be made to see that the subject is "worth" the two columns—and a little more. He may be brought into such an enthusiastic frame of mind as to suggest to his superior the advantage of illustrations for his report of the following day and illustrations add very materially in attracting notice to the show, even when poorly done. A picture catches the eye, and excites curiosity as to the matter accompanying it.

It will be found a good investment too to send the editor and his assistants each a small box of chrysanthemums or other flowers occasionally in advance of the exhibition and daily during its continuance. Such a pleasant remembrance can not fail to be appreciated.

In placing the advertising it will be wisest to use an equal amount of space in each paper. The rates in the papers of lesser importance will be lower than those of wider circulation, but so long as an equal space is used in each the business manager will make no complaint to the editorial staff that the paper is being discriminated against. And no matter how liberal the notices in the reading columns a small card among the amusement ads. will prove a good investment. Many people who have been favorably affected by descriptive articles will later turn to the amusement column of a subsequent issue to ascertain the hours the show is open, price of admission, special features for the day, etc.

Two New Chrysanthemums.

We have received from Mr. Jno. N. May two new chrysanthemums, which received commendation from the Am. Chrysanthemum Society at New York. They are both early varieties. One of them, Daybreak, is a light pink shading to lemon in the center, the pink being very suggestive of the popular carnation after which it was named. It is flat in form, of the Vivand-Morel or Inter-Ocean type, with a stiff



BUFFET TABLE CENTER PIECE ILLUSTRATION NO. 1.

stem well clothed with handsome foliage.

The second variety is a seedling of English origin, introduced by Mr. May; it has already taken three first premiums in the seedling class in England. It has been named Sunrise, and is an incurved bloom, very large and deep, the color being a warm terra cotta on the inside of the petals, with a golden buff reverse. The special value of this sort lies in its earliness; we appear to have no other early red. We are advised that this flower is selling very well in the New York market. It was much admired by chrysanthemum experts who saw it here.



TO PREVENT RUST.—Dissolve one pound of sulphate of copper in two quarts of ammonia in a 2-gallon jar. When dissolved add another quart of ammonia and stir well. [The liquid can be kept in this form for some time and used as needed.] Add a pint of this solution to a barrel of water and syringe the plants with a force-pump every two weeks. And don't let the time for spraying pass without attending to the operation.

Carnation Notes.

When do I prepare my soil for next year? Why that was attended to several weeks ago. It would not do to leave that later, and especially until spring. We first manure a piece of sod ground at the rate of ten tons (fresh stable manure) to the acre and plow under six inches deep. This is left until next spring, when we plant our stock on it. Now previous to planting we manure the headlands at the same rate as at first. The soil from these headlands we use for the houses. This is

cultivated of course whenever the plants are. You may think the manure in our sandy loam will leach out during heavy rains, but this is a very great mistake, and it saves us carting to a pile and turning it over by hand, which can not be done as thoroughly as by the plow or cultivator, and the manure becomes thoroughly incorporated with the soil. In the soil we used this fall you could scarcely see a trace of manure, although we used five tons on a piece of ground fifty feet square. No, I have no plow that would turn this amount under at one time but it was put on at several different times. The roots of carnations or any other plants will take hold much quicker in soil in this condition than they will where the manure is mixed with it just previous to using, and then it saves turning the manure several times, as we put it on direct from the stable yard or car. But you will say how will this work on your heavy clay soil, providing you have this kind. Even better than on our light soil. Now I find that the carnation likes a loose friable loam and the heaviest of soils can be brought into this condition by adopting our method. There is also a most excellent way of lightening heavy soils, and that is to cut wheat or oat straw that can as a rule be bought very cheap, into short lengths and plowed under in the early fall (October is the best time) at the rate of two or more tons to the acre. Straw not only lightens the soil but it is also one of the very best fertilizers. You must bear in mind that it is now an established fact that it does not improve vegetable matter as a fertilizer to pass through an animal, it simply reduces the bulk but at the same time many important elements which would be useful as plant food go to nourish the animal. Yes, commercial fertilizers will do very well some years and on ground that has been cropped for several years, but not such a season as last.

Carnations do best on sod ground simply because it holds the moisture necessary to produce a vigorous healthy plant, but as I told you before you must plow the ground in the fall, as decomposition sets in at once, where if left until spring decaying matter in the soil at that time brings with it the absolutely necessary company of scavengers in the shape of grubs and other insect life, many species of which are great enemies of the carnation, for where you find the insects you are most apt to find the mole who hunts the insects, and he will burrow under a whole row of carnations, loosening the roots to such an extent that they soon die. It is generally supposed that the mole eats the roots, but this is now considered by all naturalists to be a mistake, and that the field mouse is the animal who does that mischief, following as he will in the burrow made by the mole.

CHAS. H. ALLEN.

Carnations at Jersey City.

Grace Wilder still maintains a strong hold on the esteem of the Jersey City carnation growers. It is to be found in quantity in almost every one of the numerous establishments here devoted to this industry, sharing only with Portia and Lizzie McGowan the position of leader among the varieties grown. Chris Pesenecker is very proud of his Wilders and with good reason for they are a grand lot of plants and are blooming heavily already. A pure white sport from Wilder which originated with him he also values highly. The blooms are not of first size but are well formed and it is a tremendous cropper. Wilder is also very successful at John Reid's. Here are twelve thousand plants of it which is more than one-third of Mr. Reid's entire stock of carnations. It is later with him than with Mr. Pesenecker and will not be in full crop until about Thanksgiving time. At Bidwell Bros. place, which adjoins Mr. Reid's, Wilder is not so much esteemed and this is one of the few places where it is unsatisfactory.

Lizzie McGowan seems to be the leading white variety with everyone except John Harrison who likes Hinze's White better and grows this instead. Mr. Harrison's plants are enormous and a heavy crop of flowers has already been cut from them. Pesenecker has fourteen thousand McGowans, splendid strong plants and the picture of vigorous health. Carnation growers in other and less favored sections might well envy this man, for he has left out in the field, after selecting his stock, thousands of plants much finer than the best stock obtainable by many growers. These outside plants are yielding a large crop of cut flowers even now and giving a better profit, Mr. Pesenecker believes, than would be realized from the sale of the plants outright.

Portia, or Lady Emma as some of the growers persist in calling the special strain grown by them, is the favorite scarlet here as elsewhere. No variety is equally successful with everybody, so John Reid is inclined to give the preference to Emily Pierson, a variety which on the contrary his neighbor Mr. Harrison regards as very inferior, pointing with pardonable pride to a house of his favorite Lady Emmas which it would be hard to beat anywhere in the country.

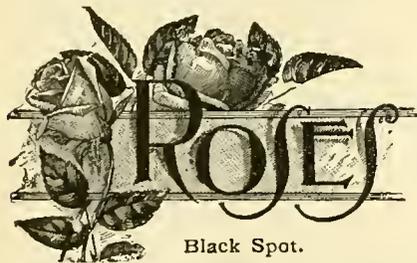
Tidal Wave is generally grown for a deep pink but it has a rival in Van Leeuwen which most of the growers seem to like, it being very similar in color to Tidal Wave but having the advantage of longer stems. All grow Daybreak, John Harrison and Leach Bros. having remark-

ably compact and shapely plants of this usually straggly variety.

On Mr. Pesenecker's place, which is devoted exclusively to carnations there are thirty-five thousand plants. Besides the standard varieties above described, the newer varieties are all to be seen in more or less quantity. Thos. Cartledge is in fine condition. Wm. Scott is grand but is away behind Grace Wilder as to time of crop. Edna Craig is fair, much better than last year Mr. Pesenecker says. Uncle John is very sick looking and Helen Keller also looks badly, it being apparently a variety hard to transplant. Adelaide Kresken bursts badly and gives poor results generally and is also like Keller, difficult to lift.

John Harrison has quite a number of the newer varieties under trial. Wm. Scott is very satisfactory. He has three good sports from this variety, two white and one deep pink which retain the excellent qualities of form and size of flower which characterize Scott. Sweetbriars are nearly all dead and Kresken, of which he bought a thousand, is in the same unfortunate condition, a disease at the roots being the apparent cause. This is to be regretted especially in the case of the latter variety which when it comes perfect is an acquisition although its lack of fragrance is a strong point against it. Mr. Harrison has not yet recovered from his astonishment at the neat manner in which that wily scamp, Josephs, got the best of him on a load of plants.

Rust, spot and similar torments of the carnation grower's existence are noticeably infrequent in Jersey City houses this season and the only serious trouble one hears of is an indictment which John Reid has against the grasshoppers for having fed on his carnation buds all summer.



Black Spot.

In response to an inquiry by a florist of Portland, Oregon, as to best treatment for outdoor grown roses affected by black spot, Professor Craig of the Oregon State Experiment Station writes as follows:

"The only remedy is prevention. Collect and burn the dying leaves as they drop; clip off the terminal buds if the plants after losing their leaves try to put out fresh shoots, as they will winter better.

"Shortly before the leaves unfold in the spring spray with eau celeste; spray again as soon as they are fairly opened, and at intervals of three or four weeks until the flowers begin to open, especially if rains wash the protecting substance from the leaves.

"Take 4 ounces of copper sulphate ('Blue Stone') to one gallon of hot water, and after the solution has cooled add 4 fluid ounces of ammonia and five gallons of water. Mix in a wooden or earthenware dish, as a tin pail would become copper plated. If any spotted leaves appear on the sprayed bushes cut them off promptly and burn.

"The above treatment should prevent all 'black spot' and 'mildew' attacks, and will not cost much, as the solution can be applied with a whisk broom or a bunch of dry grass."

Kaiserin and Meteor.

In a St. Paul, Minn., rose house Kaiserin and Meteor are growing in the same bench with a night temperature of 65° to 68°. The Meteors were fine large well formed compact buds, with no bull heads. The Kaiserin showed a vigorous clean growth of wood, but the buds were scarce and small. At the same establishment we noted Kaiserin grown with the Bridesmaid at a night temperature of 58° to 60°. They were in full crop, fine, large well expanded blooms of most perfect form; superb in every respect. This rose has done well here during the summer, but the above noted circumstance would indicate that it is not heat alone that is essential to its perfect development.

FELIX.



Cattleya Chloris.

This fine cattleya is now in flower presumably for the first time in this country, and being the first hybrid raised having the well known *C. Bowringiana* for a parent makes it extremely interesting. It is another Veitchian hybrid raised two years ago between *C. maxima* and *C. Bowringiana*. The flowers are intermediate in form, but the habit of plant partakes more after the character of *Bowringiana*. The form of pseudo bulbs, the glaucous ovate acuminate leaves two and three at the top, and the enlargement at the base of the bulb are all characteristic of *C. Bowringiana*.

The flowers are medium; sepals and petals are light purple about 4½ inches across, petals 1½ inches broad, sepals ¾ of an inch broad, lip two inches across at the front, deep purple shaded lighter to the open throat, which is richly reticulated as in *C. maxima*; unfolded lobe and margin of lip light purple.

This novelty is of good constitution and will prove as easy of culture as *C. Bowringiana*. The plant is of dwarf habit, the flowers larger, of richer color, and coming into flower in late September and October, and lasting three weeks in perfection. We grow this plant in a basket in the intermediate portion of our cattleya house in good fern root and live sphagnum. It roots similarly to *Bowringiana* and likes plenty of water when developing its growths. W. ROBINSON. No. Easton, Mass.

Foreign Notes.

The production of orchid hybrids still seems to progress in England. Among those recently receiving awards from the Royal Horticultural Society was *Cattleya Ashtoniana*, the result of a cross between *C. Loddigesii Harrisonia* and *C. Warszewiczii*. The sepals and petals are soft rose. The exterior of the lip is pale purple with darker lines toward the top, the lamina crimson purple, wavy, crisped and toothed. The interior of the lip is pale purple. New cypripediums continue to appear frequently, in many cases receiving varietal names like ordinary florists' flowers, as *W. R. Lee* or *Excelsior*. Many of them seem to possess much merit, but it is doubtful whether they will make any impression on the trade.

A new variety of our old friend *Chysis bractescens* is reported, *C. bractescens*

aurea. The sepals and petals are pure white, while the three lobed lip is deep gold in the throat, this color extending beyond the fleshy crest to the base. This variety has so far appeared in one newly imported plant only.

Cattleya hybrida Kienastiana is a beautiful hybrid, a cross between *C. aurea* and *C. speciosissima*. The flowers resemble *aurea* in form, the sepals bluish, and the petals of a deeper color. The front of the lip is bright carmine rose of a very shining shade, the throat deep orange at the entrance, veined within with white on a crimson ground. The arched side lobes are yellowish within, with a rosy fringed margin.

A remarkable new cypripedium is *James H. Veitch*, a cross between *C. Stonei platytanum* and *C. Curtisi*. The dorsal sepal is rather small, light green lined with chocolate, the petals broad, about 4 inches in length, green boldly blotched with deep crimson, dark hairs appearing at the edge; the lip deep brownish crimson. The leaves are light green with darker blotches, and the growth is very robust. This is considered one of the finest novelties of the year.

Arrangement of Flowers.

XII.

CENTERPIECES FOR BUFFET TABLES.

By buffet table we mean such a table as is set for the purpose of serving from at large gatherings in the home, such as weddings and receptions. A table of this sort may be round, square or oblong. Generally the dimensions are of a size that would seat a dozen persons, but as the size of the table has nothing to do with the number of guests served, the accommodations of the dining room is more apt to be taken into consideration as to space. The buffet table is set for show, its usefulness being rather limited; it is loaded with masses of silver and plate glass and perhaps some elaborate confections. But let us turn to the floral arrangement suitable for such a table, the center space being generally reserved for this purpose, though let it be understood that this is not always the case. An oblong table is often set to elaborate the caterers art (and the caterer rarely consults the florist in this matter) with a pyramid of confection or fruit. In such a case flower arrangements are placed at either end of the table; these must be of a size in symmetry with the center arrangement, and care should be taken not to over weight the table with material, since the floral arrangement here is intended to be but of secondary consideration. But for the center piece proper, this should be made up as showy as may be possible with the material selected. In size there is nothing to hamper us, always excepting the whims of the caterer and the price to which you are limited. On some swell occasions the cost is not considered and your order is *carte blanche*. If such is the case you may build a design of expensive material to cost a hundred dollars and upwards, but such orders, especially in these present times, are few and far between. In the majority of affairs of this kind from \$25 to \$35 is the limit.

Let us now consider a few arrangements which would range in price from five to twenty-five dollars each.

Our first illustration shows an arrangement of carnation in a round bowl; this piece at the present market rate of flowers can be furnished for the moderate sum of \$5. It consists of 100 pink carnations (*Nancy Hanks*) which are selling at present for \$1.50 per hundred, but as the



BUFFET TABLE CENTER PIECE. ILLUSTRATION NO. 2.

stock is of a selected class, and allowing some for waste we shall figure them at \$2. A few branches of carnation green, moss picks and wire 50 cents; the bowl or whatever receptacle you use to be returned. At this rate you double your money at the given price, \$5. This may be considered the florist's legitimate profit and is generally accepted as a basis for figuring. On large orders where you figure against competition a smaller percentage of profit is often accepted, and again where you cater to a high class trade, especially of that educated element which appreciates the florists' art and is willing to pay for it, you may be able without injury to your business, to figure on a larger profit.

A profit of 100% may seem exorbitant to the layman, but let him go into the business once, and it will take him but a very short time to find out, that a less rate of average profit will not pay. The loss by wastage of unsold stock is a serious factor in scaling down your actual profit, a fact we must constantly bear in mind.

Now for the arrangement of the piece under consideration, which is very simple. A cut glass bowl of suitable size will serve our purpose, still other forms are admissible. In this instance we used a bronze jardiniere with an opening of about 6 inches in diameter. If the stock is extra long the flowers can be placed loose set in water but a more showy design will be effected if your receptacle is filled with moss and the flowers arranged on this, first wiring them on matchstick of sufficient length. The flowers with a length of stem from 9 to 12 inches are best, wired with a No. 26 wire 3 to 4 stems to the stick. Select those with a stiff and upright stem for the center, and allow the weak stemmed ones to droop over the edge. If you can secure flowers with numerous buds on the stem so much the better. A few branches of their foliage

are indispensable in a good arrangement of this flower, since any other green rather detracts than adds to its make-up. A few fronds of some kind of ferns or asparagus might be arranged on the cloth surrounding your bowl.

Of course we are not confined to the use of carnations, for this piece. Good rose stock can be had for \$4 per 100, and 50 blooms will make a presentable arrangement at the specified price. During the coming chrysanthemum season for instance there will be plenty of stock of fair quality for this purpose which can be bought at a figure to come within our limit.

The arrangement of the second piece consists of a glass vase 12 inches high filled with 50 long-stemmed Perle roses; this is placed on a heavy plate mirror 30 inches in diameter, around the edge of which is placed a loosely arranged garland of white cosmos. On the mirror and surrounding the vase are placed three clumps of adiantum, the fronds placed in such position as to look like a growing plant. In fact the growing plants, if these can be had are preferable as the fronds will not wilt so easily. The plants should be tipped out of the pots, the loose dirt shaken off, and the balls of roots tied up in green moss. But if the cut fronds are used these are placed in a clump of green moss. Take a ball of moss, say the size of your fist when firmly pressed together, and pass a No. 26 wire around it several times to hold it in position, press it flat at one end to stand on, and you are ready to stick in your fern fronds. This if carefully done can be accomplished without the aid of picks or wire and you are then sure the stems will be embedded in the moss and thus keep fresh longer. In the arrangement of the roses in the vase follow the same rules laid down before, selecting the longest stemmed buds for the center, and allow the weaker stems to droop well over the rim of the vase. None but

natural rose foliage should be used. This arrangement can be put up for \$10 at the present price of flowers. Cost, 50 selected Perles, \$2, 100 long stemmed adiantum \$1.25, cosmos 75 cents, use of mirror and vase, running the risk of breakage \$1, total \$5. This arrangement of course, the same as the former, can be varied by using different material for the vase as well as the flowers surrounding the mirror. Let us say we use Meteor roses instead of Perles; these are worth \$5 per 100, but 40 blooms of this variety will go as far as 50 of the other, therefore the cost would be the same. Cosmos is in season but a short time, it is a beautiful thing for the purpose, but in winter we must look for something else. Valley or Romans are good but this will add to the cost. Say 50 valley at \$4 or 50 Romans at \$4 (but you can often buy them for less) this would bring the cost to \$6.25. Carnations, which need not be very long stemmed would be within our range, say 50 blooms at \$1.50 per 100. Again, you could omit the flowers around the rim altogether and add another 50 fern fronds. Then you can do without the mirror, if you choose and in considering your cost you have an additional dollar to add to the material. Seventy-five high grade extra long carnations for the vase would fill the bill or say a dozen good "mums," or more in number of smaller blooms. All these and many others would come within the range of our price.

The third arrangement consists of 125 selected long stemmed La France roses and adiantum about 30 inches high. The preparing of the material has been covered fully in previous articles on basket arrangements. On account of the drooping nature of average La France blooms many of the stems, particularly those used for the center, will have to be strengthened by a supporting wire of No. 24 size, but don't let us use wire unless necessary. The receptacle is a round Japanese bamboo basket which is filled with moss in the usual manner, with the sphagnum covered with wood ferns. For long stemmed roses of this kind the match stick is preferable to the pick and several stems may be wired to one stick. In the arrangement don't have the flowers all of one length, but be careful and not elevate the fully open flowers, which is often seen, over the smaller buds; the undeveloped bud should always stand highest. Always see that the edge of your basket or design is well finished by drooping your flowers and green well over the rim. A few ferns arranged on the cloth around the base of the design is needed for a finish. The price of this centre piece at current market rate of material is \$15. The price of good La France roses doesn't exceed \$4 per 100, but allowing for waste in broken stems, etc. we place them at \$4.50 per hundred. We would place the cost then as follows: 125 La France at \$4.50, \$5.63, 75 long adiantum at \$1.25 85 cents, common ferns 15 cents, moss, wire and use of basket 75 cents, total \$7.37. If made up with different varieties of roses we would have about the same result with such varieties as Brides, Mermets, Meteor and the like. Goutier and Perles would probably take more flowers, but the cost price of these is less; the same result may be obtained by numerous other varieties of flowers, such as chrysanthemums and later on tulips, daffs and Dutch hyacinths, Harissii, etc.

The last plate shows 50 blooms of Beauties arranged in a round bowl filled with water; the bowl is placed on a mirror of the dimensions given in No. 2, around the edge of which is placed a

wreath of white cosmos and adiantum. The make up can be taken in at a glance, and needs but little explanation. There is only one difficulty that a new beginner may encounter, and that is as the bowl is but about 10 inches high it would somewhat bother him to hold the flowers with 3 feet of stem in their proper position. This can easily be done by placing a vase just large enough to hold about half the number in the centre of your bowl; this vase may be several inches higher than the bowl, straight up and down slightly flaring at the top, but it must be heavy, such as imitation cut glass. The longest stemmed flowers are placed in the vase, which if of the right size will hold them in position as arranged. The second half of the flowers may be of less lengthy stem, which are placed in the bowl proper. The space between the inside vase and bowl is now narrow enough to keep these flowers also in position. The selling price of this piece would be \$25; cost 2 dozen Beauties at \$2.50, 2 dozen at \$2, cosmos \$1, 75 adiantum 85 cents, use of mirror and vases \$1.50, total \$12.35.

Of course as the season advances, the price of Beauties goes up and you will naturally have to cut down the number of flowers in proportion. Few other flowers are suitable as substitutes for an effective piece of this kind. Chrysanthemums are just the thing though, and so are *Harrisii* lilies.

New York.

Sander's auction sale with Messrs. Rolker & Sons on October 19 was a great success, buyers coming from such long distances as Chicago, Glens Falls, Troy, Detroit, Philadelphia and Boston, and these together with a crowd from New York City, Brooklyn and New Jersey made things lively, the bidding and prices reminding one of the good old times. Mr. Fred A. Rolker, son of Mr. August Rolker, occupied the stand and was warmly complimented on his success in this his first orchid sale. The indispensable Pat was largely in evidence, remarking as he noted the lively bidding that "a dispute is the life of trade."

The wholesale cut flower market is in the dumps again. Reason, too much stock coming in. Roses of all kinds too abundant and being crowded to one side by the avalanche of chrysanthemums which is just beginning to become a burden. A large part of Saturday's receipts was carried over until Monday, a condition which affected disastrously the returns to the growers for the preceding week and had an equally unfortunate effect on Monday's opening trade. Carnations do not seem to feel the pressure to the same extent that the roses do but they have weakened to some extent. Violets are improving slowly and when really good sell as well as usual at this season. Lily of the valley finds a very slow market. Cosmos is seen everywhere but in much less quantities than has been the case in previous years. Although the cold weather has stayed away so well that fuchsias, salvias and begonias still bloom freely in the garden yet with the exception of the cosmos and a few belated dahlias, outdoor bloom has entirely ceased to come in.

The chrysanthemums now being received are of the larger and better mid-season varieties, the very early sorts being about all cut, or if not cut unsalable except in job lots. Kate Brown proved to be one of the very earliest whites here and if cut and sold at once was profita-

ble. If allowed to stand on the plant a few days it shows the center and becomes soft. Mme. Bergmann gave more satisfaction generally than it did last year, the green center formerly complained of having almost wholly disappeared this year. The great complaint against Mrs. E. G. Hill is as regards its stem, which is none too stiff and is bare of foliage for some distance from the flower. Miss Bessie Cummings also suffers from a long weak neck but like the Hill is hard to beat for earliness. The finest and most generally satisfactory white now coming in is Jos. H. White, a variety that is full of good points. Clinton Chalfant which is a yellow sport from White is equally good. Harry Sunderbruch is grand and is to be seen in the larger florists' windows labeled Golden Wedding, a tribute to sentiment which ought to set our chrysanthemum namers a-thinking. Some growers complain that Yellow Queen is rusty; others that Niveus, Domination and Mrs. E. G. Hill show signs of disease with them. The many varying experiences show that varieties do not do equally well with all growers and suggest that either condemnation or praise of a given variety be always taken with a certain amount of reservation. Some of the best sorts such as Ivory, Major Bonaffon, etc., are being cut in a half developed state by some growers and on seeing such one is constrained to question whether the ability to cut a bloom properly is not an accomplishment second only to the ability to grow it.

Whether the American Rose Society attain the position sought by its ambitious promoters or no, there is no question that our rose growers are making very material progress. That persistent investigation and patient perseverance in the face of adverse conditions is the winning course always is well shown in the splendid stock being sent to the market this season by Mr. John N. May. It is a treat to see one of his boxes opened. Some of the Meteor growers are making wonderful progress with this variety. Those who knew only the Meteor of two years ago with its short, gnarly pucker petals, in all shades of color from light red to black and blue would never recognize it in the handsome even colored long and smooth petalled buds which some growers are producing. This is not chance but experience and the gulf between the carelessly grown and carelessly handled stock and the stock above described is rapidly widening. Rubbish becomes more difficult to dispose of every day. Another rose that has been wonderfully improved out of its original defects is the Testout. The loose ragged characteristics of this variety have disappeared and we have a substantial, well formed long and sleek bud far superior to any claims ever made for it by its most sanguine friends. Kaiserin and LaFrance are also in unusually good form this season. Hoste seems to be grown in less quantities than last season. Perle, on the other hand, has been planted more extensively than for some years back. Alluding to the current complaint regarding black spot on American Beauty, Ernst Asmus says, "you cannot cut Beauty all summer and then expect the plants to be in good condition for winter." More truth than poetry there.

On or about November 1 Thos. Young, Jr. will move from his present quarters at 20 West 24th street to a larger, more convenient and central position at 43 West 28th street, and the busy scenes which have for the past seven years given 24th street such prominence as a floral center will disappear from that familiar neigh-

borhood. No man is more thoroughly identified with the great wholesale flower trade of New York than Mr. Young and it goes without saying that a host of friends will wish him still greater success in his new quarters.

Reports from Madison's new social florists' club indicate a prosperous future and its founders are highly elated. Mr. Thos. Kelley will talk on rose growing at the next meeting.

Siebrecht & Wadley will hold an exhibition of chrysanthemums, orchids and decorative plants at the Eden Musee commencing November 8 and lasting for two weeks.

A flower show in connection with the Food and Industrial Exposition at the Grand Central Palace is projected for the month of November. Mr. H. W. Wiperman has charge of this department.

The establishment of G. L. Progatsky at 79 Avenue A has been sold out to F. W. Thielmann of Brooklyn.

I. Forsterman is one of the first growers to get through with the chrysanthemums. His blooms are all cut already and the room occupied by the "mums" is being filled with carnations.

Julius Roehrs has been bringing in a fine crop of *Vanda cœrulea*. This is one of the orchids which sell at sight.

Rev. S. Reynolds Hole, the noted English rosarian is on the water en route to New York. He is sure of a hearty welcome from the American fraternity.

Chas. Schwake reports a phenomenal call for the "Black Callas." Result of advertising in the AMERICAN FLORIST.

McConnell & Grimsbaw, 620 Madison Avenue have been closed up by the sheriff. Several commission houses are heavy losers.

It is said that Klunder is about to return from Chicago to New York.

In town again, Mr. D. D. L. Farson, secretary of the Penna. Horticultural Society.

Chicago.

The chrysanthemum show is a leading topic of conversation now. The press committee is at work and frequent notices of arrangements as perfected are appearing in the dailies. A new feature in advertising this year will be the use of large posters, 12x14 feet. One hundred of these will be posted in various conspicuous places about the city and the exhibition will be announced on these in letters as large as can be had. The display will be so bold that the words "Chrysanthemum Show" can be heard above the rumble of street traffic. The expense of this 100 posters will be \$140 for one week, but the committee believe the expenditure will prove to be well placed. In addition two large banners will be suspended across State and Madison streets where shoppers are thickest. These will cost \$100 and required a special permit from the city council. They ought to be a good investment. Another feature will be handsome vases of chrysanthemum flowers displayed in the windows of leading down town stores with a placard announcing the show. The regular stock chrysanthemum poster is being used freely in the florists' stores and anywhere where influence can get them displayed. A small slip about 2½x4 inches announcing the show is being enclosed in boxes of flowers, bills, statements, etc., by the florists, seedsmen, and others. By the way—the half sheet chrysanthemum poster displayed in elevators is a very effective adv. It requires influence to get the privilege but is worth a little exer-



BUFFET TABLE CENTER PIECE. ILLUSTRATION NO 3.

tion. A good scheme to work with the newspapers is to get them to offer a liberal special prize and take the amount in advertising space.

A word to editors of dailies by influential members of the Horticultural Society who happen to be on intimate terms with them works wonders in the way of securing newspaper publicity. Let the point be made that the show is *not* a money making scheme.

Henry Bornhoft will open a store corner of State and Ontario streets November 15.

A "chrysanthemum ball" is a society event announced for November 16.

The Queen of autumn has taken possession in dead earnest. She is very much in evidence everywhere, but is her rule as dominant as ever? This question is asked seriously by many a grower, a question as yet too early in the season to answer. Certainly the demand for "mums" this season so far has been much lighter than was expected, high-priced flowers particularly go very slow. But as the price has dropped considerable in the last few days, the sales have materially increased.

Said one of our prominent dealers the other day: "I put the price of the first good blooms at \$6 a dozen, basing my figures on the cost of flowers at that time. I found, however, that at that figure the flowers were left on my hands. I next dropped them to \$5, but still there were but few sales. Then I put them at \$4, when they began to move fairly well. At present I hold them at \$3, at which price the demand is quite brisk. Of course a few of the gilt edged blooms bring a better price." Well there you have the experience, not of one man, but of the majority of dealers.

In really first-class stock the market is not overloaded yet. Such Ivory and Golden Queen as the Stollery Bros. of Argyle Park, are cutting fine quick sales at from \$2.50 to \$3. These Ivory, by the way, are the grandest blooms we have ever seen of this variety. In size and finish of blooms, good length of stem and foliage, there is nothing better to be desired. Nathan Smith & Son, of Adrian, Mich., are also sending in to Corbrey & McKellar some superb Mrs. E. G. Hill, by far the best flowers yet seen of this sort on our market; the blooms were more or less spoiled though in transit; it seems this otherwise beautiful sort is not a very good shipper.

While this variety sold quite well on its first appearance in the market the demand has decidedly fallen off. The dealers say the blooms quickly take on a bluish tint that spoils them.

In medium quality of such varieties as Whildin, Ivory, Domination, Kyoto, Gloriosum, etc., the market is loaded, these sell at all the way from 8 to 15; poorer grades of southern stock and varieties grown to sprays go at 2 to 5.

Beauties hold their own, but other roses have taken a fearful tumble; in lots of 500 and upwards good stock may be had for \$1 per 100. But this drop will of course be only temporary, and may last only a day or two.

Violets, so scarce last week, have all of a sudden become very plentiful. The quality is also much improved, but the bottom has been knocked out of prices, which are from 50 to 75 cents for good doubles.

Carnations too, have suffered; fairly good stock may be had at 75, and few going over \$1 per 100.

At the meeting of the Florist Club last Thursday evening there was a good attendance. Officers for the ensuing year were elected as follows: J. F. Kidwell, president; Edgar Sanders, vice-president; N. P. Mueller, recording secretary; J. B. Deamud, financial secretary; W. W. Barnard, treasurer; trustees—J. S. Wilson, W. H. Kidwell, Fred Kanst, Chas. Held, Arnold Ringier.

The sum of \$75 was appropriated to be offered as a special prize at the coming exhibition of the Horticultural Society.

The trustees were instructed to look at rooms in the Masonic Temple and engage them for future meetings if deemed advisable. This move will be made to remove all chance of criticism on the club's holding its meetings in a commission house. At the next meeting the new officers will be installed and some entertainment provided.

After adjournment a regular bowling team was organized with J. S. Wilson captain and P. J. Hauswirth secretary. It is proposed to have regular weekly practice nights and go at the bowling matter in earnest.

A gun club was also organized with President Kidwell as captain. It was unanimously resolved that at Pittsburg the club should at least keep a way from the tail end of the procession.

Philadelphia.

The chrysanthemum tide is rising just a little too fast. The trouble seems to be that it is all flow and no ebb, for they are not selling very well. We believe they are doing as well as usual for both grower and dealer, but there seems to be more about than last season at this time. Nearly all the growers have some of the early varieties and as the demand for this flower does not keep pace with the first installments, the ice boxes soon get filled up and then the cutting of prices commences. Some very good flowers of Mrs. E. G. Hill have been seen and they sell fairly well at from \$1.50 to \$2.00 per dozen, the latter price for extra fine flowers. These prices hold good for nearly all varieties except for some smaller sizes which bring from 50 cents to \$1 00 per dozen.

Some are beginning to say "They're done, I knew they wouldn't last;" "They won't sell after this year," etc., but we venture to predict that these same individuals will be on deck with probably an extra house or two next season.

La Neige is a variety which is not grown to any extent this season. Sprays of this fine white should sell and there are several other small flowers, varieties that should be grown and which would make beautiful sprays.

All kinds of roses are to be had in quantity, except possibly Beauties, which might be more plentiful, prices are about the same as last week but with a falling tendency. The quality is first-rate but the quantity keeps the price down. The larger teas are selling for from 3 to 4 while the smaller stock go slowly at 2. Carnations are coming along finely and improving considerably as the season advances. Fair to good stock brings 1 while \$1.25 to \$1.50 is asked for the best. Among the prominent varieties now in are Daybreak, Portia, McGowan, Sweetbrier, Buttercup, Golden Gate, Wilder, Thos. Cartledge and Mrs. Fisher. Double violets are getting better and sell for 50 cents; valley sells for \$4; there are no Romans as yet. Smilax is again plentiful at from 12 to 15 and asparagus at 50.

With the exception of weddings or other

special occasions the business is very quiet. The weather has been very fine for the past week, and as a consequence the consignments of flowers have been large. The hustlers have a great time getting rid of their stock; as many as six wagons were counted in front of one dealer's place with a hustler from each inside the store trying his best to lighten his load. Such competition is hard on prices, and a man with orders for a lot of flowers can get his stock at very low rates.

H. H. Battles has just put a stunning rig on the street. Things are looking prosperous on 12th street.

The coming chrysanthemum show promises well. Secretary Farson says that entries are coming in fast. He thinks this exhibition will be the best the society has ever held, both in number of entries and quality of flowers. The vegetable corner is to be well filled up. The firm of H. A. Dreer have offered special premiums amounting to \$100 for exhibits of these fruits and roots of the garden.

The bids for decorating the Academy of Music, where the show is to be held, will be opened and the contracts awarded by Saturday. The building should certainly look very handsome when everything is in readiness for the doors to open.

Ernest Kaufman and Simon G. Skidelsky trading as Ernest Kaufman & Co., dealers in florists' supplies, North Fourth street, made an assignment to-day for the benefit of creditors to Bernhard Selig. The deed is dated the 24th inst. and conveys no real estate.

The November meeting of the Florists' Club will be held Tuesday, October 30, as the regular date, November 6, is the first night of the chrysanthemum show. John Carver Jr. will read a paper on how to lay out and plant a one acre plot for a suburban residence. K.

St. Louis.

After a week's cool weather it has suddenly turned warm again, and has overstocked the market with the increased output, there being quantities of stock wasting. The old saying about an ill wind fits the case, for it is rushing the chrysanthemums along at such a rate that quantities of plants will be in fine shape for the show, over which heads were being shaken and regrets expressed last week. As is always the case, no one can be found who has grown any plants for the show; still in a visit among the growers last week, there was not a place visited where there were not some extra large pot plants that might under half a dozen circumstances be shown so that a fair showing of pot plants may be expected. In cut flowers the competition promises to be keener; several sure competitors have houses that promise to cut stock fully up to a show standard.

The rose men are not saying much but are watching the appearance and growth of heavy red canes from the base of plants of Kaiserin, Testout and La France and speculating on the length of time required to be in condition for cutting, or are selecting tens and twenties from bunches of a hundred or so, to see how they look. In short all are preparing, and the prospects for a successful show were never brighter. The committee having the show in charge are working steadily, and nothing will be omitted that can in any way aid towards success.

The Michel Plant and Bulb Co. have doubled the space they had in chrysanthemums last season; their collection last year was general, the increase this season being in varieties that pleased them best

last year. The principal whites grown in quantity are Queen and Niveus; yellows are H. Sunderbruch, Illuminator and Golden Wedding. The growth on their Golden Weddings is something marvelous; Eugene Dailedouze along side of it cannot come anywhere near it in foliage or stem. If Golden Wedding flowers come according to the promise made by its growth, some record breakers will come from this place. The pinks mostly grown are W. R. Smith, C. Chalfant and W. N. Rudd. Quite a batch of Mrs. E. G. Hill were also noted looking very well; they promise to come in close behind Kate Brown, which variety is the earliest wherever grown.

At Mr. Schray's the "mums" are also in good shape, the great bulk being market plants in 6 and 7-inch pots. Quite a few in larger sizes were passed without remark, needless to say they will appear about show time. The earliest varieties were Whilidin, Gloriosum and Kate Brown with Mrs. E. G. Hill a close second. Their regular house of chrysanthemums for cut flowers is in fine shape; quite a number of varieties are grown, all good ones. The newer varieties are receiving a trial also some of them making an attempt to raise the roof; after being grown a season and the habit observed they are given all the headroom required. The house of carnations that have been grown in the benches all summer are looking fine, the plants being strong and healthy, and cutting magnificent flowers; a vase of flowers from these plants shown at the last club meeting elicited most favorable comments, Buttercup, Sweetbrier and Wm. Scott being exceptionally large flowers. In the last house visited quite a novelty was noticed, it being a plant of Euphorbia monstrosa, standing about three feet high, it was brought from the Centennial in 1876, being then quite a small plant. Several attempts have been made to increase it but so far without success.

Two special prizes of \$10 each have been added to the premium list for best vase of pink and white roses, Beauty and Belle excepted, not less than 35 nor more than 50 flowers.

Mr. Chas. Cannon who has been suffering from an attack of sickness for some time is again around; he intends opening another store on Grand and Franklin avenues.

Mr. Robert Thompson of the firm of Thompson, Anderson & Kennedy and formerly with the Lord & Burnhan Co., was married on the 18th of September.

R. F. T.

Cleveland.

Cosmos is just beginning to become plentiful. It seems unusually late this season; cannot someone tell us the secret of getting this useful flower in bloom earlier? Dahlias were a failure this year with perhaps one or two exceptions; they did not bloom freely and were not at all a satisfactory crop when frost cut their career short. This partial failure was due no doubt to the hot dry summer as it was more noticeable in the light sandy soils than in districts where there is more clay.

The Gordan Greenhouses sent in the earliest chrysanthemums of the season. Good flowers of Gloriosum and Kate Brown brought from \$12 to \$15 per 100 wholesale. Roses and carnations for the past three weeks have been in active demand; at times there has almost been a famine so to speak, and we know of several cases when florists' stock got so low they were compelled to beg a few

flowers from their neighbors to help fill out an order. Happily there is a relief now in the chrysanthemum. Violets are becoming more plentiful, although the supply of the double sorts is still limited and not very large with too much white in the eye.

The Cleveland Floral Co. has opened up a new store down town. They are located on Erie street where they have a neat store nicely fitted up. They have abundant glass to back them up.

O. Holm, real estate dealer, has embarked in the florist business and has started a store at 211 Euclid avenue. He has no greenhouses and will buy what his trade demands.

The hose mender fraud who swindled several parties in our city has been caught, and is under heavy bail to appear before the grand jury.

At a fashionable wedding this week the main center piece for a table was a wreath of Meteor roses fifty-four inches in diameter; there were between four and five hundred roses in it; on one side was a sash of ribbon.

Beaumont had the decorating at the opening of a large jewelry house this week. Beauties and chrysanthemums were lavishly used, and there were also set pieces emblematic of the trade.

John Hudson of Brooklyn Village has put up two houses 15x45 feet, and will grow a general mixed stock. L. F. D.

Boston.

The third week in October opens with conditions in the cut flower trade somewhat unsettled, and indications that the regular annual congestion of chrysanthemums, roses and carnations is about to be experienced. Stock is in excess of the demand and prices have already begun to feel it. The only course is to practice patience for the next four weeks, for there is no remedy. The demand for white chrysanthemums has been fair and yellow is not yet badly overstocked.

Intending exhibitors at the Mass. Horticultural Society's chrysanthemum show if at a distance from Boston can address their exhibits to Mr. Jos. H. Woodford, superintendent of exhibition, Horticultural Hall, Boston, and they will receive proper care. Show opens on Tuesday, November 6.

Peter Fisher has some very promising seedling carnations. He says that his experience in buying diseased varieties has forced him to depend entirely on his own seedlings for stock.

Wm. Scott is the most popular carnation outside of Daybreak coming in to the cut flower market. John Walsh has Scott in splendid shape.

Visiting Boston: Martin Renkauf, representing Bayersdorfer & Co., Phila.; A. T. Boddington, from United States Nurseries, Short Hills, N. J., and W. E. Morton, Portland, Me.

Cincinnati.

We are having unusually warm weather for the time of year and the effect is severely felt on the cut flower trade. Only the choice stock brings the top notch price, and good stock is to be found in the job lots. American Beauty, strictly first-class, sells at 20, while shorter stems range from 10 to 15; other roses from 2 to 4. Carnations are a little firmer, white especially being scarce; fair sell at 1 to 1.25, while fancy bring 2 to 3. Valley is still firm at 4. Chrysanthemums are in fair demand and the market well cleared up at 10 to 15, blooms that formerly sold



BUFFET TABLE CENTER PIECE. ILLUSTRATION NO 4.

at 25. The kinds now received are Mrs. E. G. Hill, Yellow Queen, Whildin, Gloriosum, Kate Brown, Rosa Kupferle and two white seedlings. A walk through the flower market shows every stand well decorated with pot plants of these. Kate Brown and Gloriosum seem to predominate, with a few well grown October Beauty. The growers report fair sales.

At the exhibition of early chrysanthemum seedlings R. Witterstaetter displayed a vase containing 25 blooms of H. L. Sunderbruch carnation, red in color with stems stiff enough to give it a graceful appearance. Another vase contained several seedlings, one a pure white, slightly touched with crimson; another resembling Daybreak but more delicate in shade; still another pure white with stiff stem, perfect calyx, well built flower and fragrant. Some of these will certainly claim attention later.

Adelaide Kresken is showing well with all our growers and specimen blooms command 3c.

Mr. Albert McCullough was in Chicago last week.

Our visitors were Mr. T. C. Hobbs, Anchorage, Ky.; Mr. Alfred Baur, of E. G. Hill & Co., and Joseph Goldman of Middletown, O. G.

St. Paul, Minn.

The fine bright weather of the past week has brought blooms in abundance, and for once the supply has equalled the demand. Stock is of the very finest quality. Never before have such fine roses been seen in St. Paul as were cut during the week.

"Mums" are a little late and but very

few have as yet been cut. Among the earliest here are Monarch, Gloriosum, Ivory, J. Hood Wright and Mrs. E. G. Hill. This latter is the finest pink ever grown here, its color, size and form being perfect. One peculiarity noted in this variety by one of our prominent growers is that the laterals make much better blooms than the crown buds. So few "mums" have been offered that the price for them can not be said to be established. The first offered were Monarchs 7 to 9 inches in diameter and they retailed readily at 25 cents apiece.

L. L. May & Co. have their new store on Fifth street pretty well settled and ready for business. A large show window filled with palms, ferns and pretty foliage plants interspersed with high vases filled with cut roses, has been a very attractive center of admiration. The store itself is large, light and attractive and when fully furnished will be one of the finest retail stores in the country.

The Society of Minnesota Florists met at the West Hotel, Minneapolis, Saturday evening, October 13, 1894. President Souden occupied the chair and all the officers were present. The attendance was one of the largest in the history of the society, the proceedings harmonious and the members enthusiastic. After the reading of the minutes, which were duly approved, the committee empowered to purchase a cane for ex-President Nagel reported, and the cane, a handsome gold headed one with this inscription, "Presented by S. O. M. F.," was duly presented to him. Mr. Nagel thanked the society for the gift in his usual felicitous style. The cane was presented to Mr. Nagel in consideration of his services in

behalf of the society. He is one of the oldest members in point of years and of service, has done much to advance its interests, has served three terms as president and is justly entitled to the gift at the hands of the society.

The president then read the following address: "Gentlemen and members of the Society of Minnesota Florists. For the benefit of any strangers who have come to spend the evening with us I consider it the duty of your president to give them a little idea of the society, its aim and purpose. The object of the society is to bring together all who are interested in floriculture or horticulture, whether amateur or professional, so that we may increase our knowledge in all the different branches of our profession. A higher, nobler mission hath no one. Our occupation is worthy of all the interest we can give it.

"I am sorry our society has been on the decrease for the past two years, for reasons not known. However, it is very gratifying to think that such members as Mr. Nagel, Mr. Malmquist, Mr. Swanson and a few others never gave up hope. Gentlemen, I can assure you that I never came to a meeting, however small the attendance, but that I learned something worth coming for, and it is my belief that if we work together, shoulder to shoulder, for the good of this society and its aims that we will soon regain that sphere of usefulness which is to benefit us and the florists in general.

"To the young men who are anxious to become successful florists or gardeners I would say, it is not so much the opportunities as the use you make of them that tells on life's journey. Never become discouraged when you make a failure and cannot account for it, for the very best florists of the day sometimes make failures. Always endeavor to find out the why and wherefore, and then try again.

"Let us not forget the ladies, but do all in our power to encourage them, especially in the retail stores, for I consider them better adapted for that than gentlemen clerks.

"Above all let us avoid all small, mean jealousies and live on friendly terms with one another.

"I believe that we as a society should do all that lies in our power to encourage plant and cut flower exhibitions, for there is no better mode of advertising and encouraging each and every one of us.

"Let us get right down to business and work hard, for there is plenty of material in the state of Minnesota."

The subject for the evening's discussion was "The advisability of using oil for fuel." The secretary, Mr. Currie, read several communications from prominent growers in the east all favoring the use of oil; also a letter from one of the leading oil contractors explaining in detail their system of putting it in and using it. Mr. F. C. Bartels gave his experience with oil and pronounced it very satisfactory, finding it cleaner and cheaper than coal. Others present gave their views, and all seemed to concur in the opinion that oil is cleaner, cheaper and in every way preferable to coal for fuel purposes.

Mr. R. J. Mendenhall of Minneapolis, with upwards of 75,000 feet of glass, is now putting in oil, using the hydraulic pressure system. When completed our florists will have an opportunity of witnessing its practical working.

The society adjourned to meet one month hence in St. Paul. Mr. Souden showed some very fine specimen blooms of Bridesmaid and Testout. FELIX.

THE AMERICAN FLORIST

Subscription \$1.00 a Year. To Europe, \$2.00.

Advertisements, 10 Cents a Line, Agate; Inch, \$1.40; Column, \$14.00. Cash with Order.

No Special Position Guaranteed.

Discounts, 6 times, 5 per cent; 13 times, 10 per cent; 26 times, 20 per cent; 52 times, 30 per cent. No reduction made for large space.

The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to those lines ONLY. Please to remember it.

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

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

Address THE AMERICAN FLORIST CO., Chicago.

MR. A. W. SMITH of Americus, Ga., who sent us variegated sprays of Euphorbia heterophylla (not pulcherrima as stated in a previous issue), tells us that this development is the result of five years' work, and is now a fixed type. The combination of scarlet bracts and variegated leaves is very showy, and being, as the originator says, fixed under exposure, should make a valuable addition to subtropical bedding.

BLOOMS OF A YELLOW CANNA seedling were recently received from Mr. H. P. Potter, Wilmington, Del. The blooms had suffered somewhat in transit, so it was impossible to form much idea of the spike, but the flowers were very attractive being a rich deep yellow bordering on orange, entirely free from any spot or stain of red. If its other qualifications are equal to its color it should be a very useful variety.

WORDEN-SECKEL PEAR.—The Smiths & Powell Co., Syracuse, N. Y., send us several fruits of this pear, a seedling of the Seckel. They much resemble the parent in shape and size, and are of excellent flavor.



FOLDING PAPER BOXES for CUT Flowers.

Made from Water-proofed, Double Manila lined, Strawboard. Shipped flat, packed 100 in a crate.

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Jackson & Clinton Sts., CHICAGO. TELEPHONE MAIN 4718.

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Wholesale Florist
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Cycas Leaves. FRESH CUT each 75c.
VAUGHAN'S SEED STORE, P. O. Box 688, Chicago.

CUT SMILAX.
15 cents per String.
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Mention American Florist.

CHRYSANTHEMUMS.

REMEMBER

we lead them all for CHOICE CUT BLOOMS when you want to get "THERE." Remember also that we handle gilt edge Valley, Roses, Carnations, Orchids, and other flowers, and send out only **FIRST-CLASS** flowers.

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MRS. E. G. HILL, best early pink.....	\$20 00	E. DAILEDOUZE.....	50.00
YELLOW QUEEN, best early yellow...	50.00	MUTUAL FRIEND.....	50.00
CHALLENGE.....	20.00	MRS. J. GEO. ILS.....	50.00
BEAU IDEAL.....	20.00	ACHILLES.....	50.00
INTER OCEAN.....	40.00	A. H. FEWKES.....	20.00

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We are Headquarters for **AMERICAN BEAUTIES**, as we grow 30,000 plants of this variety alone of the best quality. Also large quantities of Brides, Bridesmaids, Albany, La France, Perles, Woottons and Meteors.

Choice SMILAX and ADIANTUM.

Lily of the Valley constantly on hand.

SEND US YOUR ORDERS.

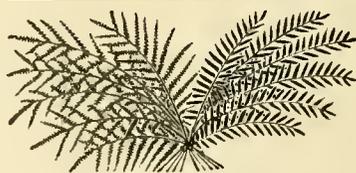
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CAREFUL PACKING GUARANTEED.

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ASPARAGUS PLUMOSUS NANUS.
CUT STRINGS 8 TO 12 FEET LONG, 50 CTS.
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 SHIPPING ORDERS will receive our special
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 flowers. Give us a trial order.

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 WIRE WORK, OUR OWN MAKE.
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VIOLET PLANTS, fine, clean stock.
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 OPEN TILL 8 P. M. SUNDAY TILL NOON.

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Roses, average stock.....	1.00@ 3.00
" Beauty.....	2.00@ 5.00
" Meteor, Testout.....	10.00@20.00
" Kaiserln.....	2.00@ 4.00
" Kaiserln.....	2.00@ 4.00
Carnations.....	50@ 1.00
" fancy.....	1.00@ 1.50
Chrysanthemums.....	1.00@ 5.00
" fancy.....	3.00@ 25.00
Valley.....	2.00@ 3.00
Violets.....	.35@ 1.00
Smlax.....	8.00@10.00
Asparagus.....	35.00@50.00
Adiantum.....	.75@ 1.00

BOSTON, Oct. 23.

Roses, ordinary.....	1.00@ 3.00
" Extra, Mermets, Brides.....	3.00@ 6.00
" Meteors, Bridesmaids.....	3.00@ 6.00
" Beauty.....	6.00@25.00
Carnations.....	1.00@ 1.50
" Daybreak.....	1.50@ 2.00
Chrysanthemums.....	4.00@25.00
Valley.....	3.00@ 4.00
Cosmos.....	.25@ .50
Violets.....	.50@ .75
Adiantum.....	.75@ 1.00
Smlax.....	10.00@12.00
Asparagus.....	50.00

PHILADELPHIA, Oct. 23.

Roses, small.....	2.00
" large teas.....	3.00@ 4.00
" Beauties.....	12.00@16.00
Carnations.....	1.00@ 1.50
Valley.....	1.00@ 1.40
Smlax.....	12.00@15.00
Asparagus.....	35.00@50.00
Violets, double.....	.40@ .50
Cattleyas.....	35.00@40.00
Cosmos.....	.50@ .75
Chrysanthemums.....	5.00@20.00
Adiantum.....	.75@ 1.00

CHICAGO, Oct. 25.

Roses, Beauty.....	8.00@20.00
" Albany, Brides, Bridesmaids.....	3.00@ 4.00
" La France, Wootton, Testout.....	3.00@ 4.00
" Mermets.....	3.00
" Meteor.....	4.00
" Perle.....	2.00@ 3.00
Carnations.....	1.00@ 1.50
Valley.....	4.00
Chrysanthemums, Ivory.....	6.00@10.00
" Yellow Queen.....	15.00
" Mrs. Hill, doz.....	1.00@1.50
" Whitlida, ".....	1.50

ST. LOUIS, Oct. 25.

Roses, Perles, Wootton.....	2.00@ 3.00
" Bride, Mermets, Albany, La France.....	3.00@ 4.00
" Kaiserln.....	4.00@ 5.00
" Bridesmaid, Meteors.....	3.00@ 4.00
" Beauty.....	5.00@21.00
Smlax.....	15.00@18.00
Violets, single, per 100.....	25c
Carnations, long.....	1.00
" short.....	.50

CINCINNATI, Oct. 23.

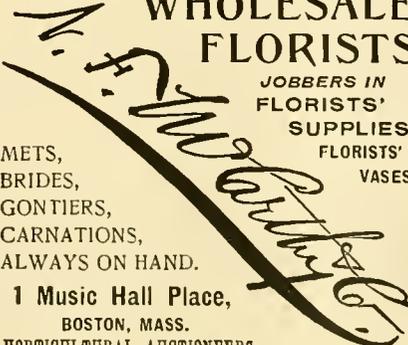
Roses, Perle.....	3.00
" Kaiserln, Mermets.....	4.00
" Bride, Bridesmaid.....	4.00
" La France, Meteor.....	3.00
" Wootton.....	4.00
" Beauty, Belle.....	8.00@21.00
Carnations.....	.50@ 1.50
Valley.....	4.00
Smlax.....	15.00

BUFFALO, Oct. 24.

Roses, Beauties.....	10.00@15.00
" Mermets, Bride, Kaiserln.....	4.00@ 5.00
" Perle, Gontier, Hoste.....	3.00@ 4.00
" Meteor, La France.....	5.00@ 6.00
Carnations, long.....	1.00@ 1.50
" short.....	.50@ .75
Valley.....	4.00
Violets.....	.75
Chrysanthemums.....	5.00@12.50
Adiantum.....	1.25
Smlax.....	10.00@20.00

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WHOLESALE FLORISTS
 JOBBERS IN
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 BRIDES, VASES.
 GONTIERS,
 CARNATIONS,
 ALWAYS ON HAND.
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 HORTICULTURAL AUCTIONEERS.



THE LEADING FAVORITES:
American Beauty,
Bridesmaid,
Meteor,
Testout,
 And all other desirable roses, grown especially for first-class trade.
BURNS & RAYNOR,
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Cut Flowers,
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FLORIST,
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Roses Shipped to all points. Price list on application.

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Careful Shipping to all parts of the country.
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 Roses, Carnations, Chrysanthemums,
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The Seed Trade.

AM. SEED TRADE ASSOCIATION.

D. I. BUSHNELL, St. Louis, president; S. E. BRIGGS Toronto, 1st vice-president; A. L. DON, 114 Chambers street, New York, secretary and treasurer.

The Onion Seed Situation.

Our article in the last issue has brought out a number of replies which we give below without comment. While prices are decidedly unsettled we believe that jobbers are not all disposed to maintain the highest quotations named in our last, especially with their own smaller wholesale trade, preferring to sell at even less than they believe to be the market value rather than to lose a general order, thus using the onion for the "sugar" as we have before claimed.

In one sense the onion seed situation has a peculiar look. The delay this season of the California growers in reporting their crops lays them open to criticism. The uncertainty resulting therefrom if judiciously assisted by active inquiry in the East could well be made (and perhaps with the best of results to all) to advance prices. What is the real shortage and what is the stimulant? While the trade are all willing to profit by a good advance they also all desire to know how it comes about.

W. Atlee Burpee & Co. say: "We carried over less than 150 pounds of Red Wethersfield and less than 1,200 pounds of Danvers; our deliveries on contract aggregate exactly 62 per cent of Globe Danvers and not quite 25 per cent of Red Wethersfield. Considering the fact that we had contracted for only our actual requirements, anticipating that we would be able to buy surplus below contract prices, you can readily see that we are caught very short on both these items. We have made personal inquiry from every grower both in California and Connecticut, and not one has been able to supply us with a single pound of either Globe Danvers or Red Wethersfield, everyone refusing to name any price whatever. We have also applied to every reputable dealer of any size in the United States, with the result that we have only had two offers of 500 pounds each of Red Wethersfield, both of which we have purchased, and one offer of 1,000 pounds Red Wethersfield subject to telegraphic reply, but as the price of this last lot was so high we were not then ready to pay the figure named; since then the offer has been withdrawn. Both lots that we bought were at considerably higher prices than we retailed the seed for last year, consequently we find ourselves to-day with less than half our requirements and are disposed, unless further developments should come, to hold the seed at a very stiff price. Hearing that large quantities of seed from American stock had been grown in France we immediately cabled for 30 cwt. Red Wethersfield and 25 cwt. Danvers, with the intention of stating plainly in our catalogue that as it was impossible to get enough of these varieties American grown to "go around" we would now do what we had never done before, offer French grown seed from American stock to help patch out requirements to all those who were willing to risk French grown seed. As this cable order was sent off almost immediately upon receipt of the price list we naturally expected to receive the quantities ordered; what was our surprise then when we received a cable reply that out of the 30 cwt. ordered they could only supply 1 1/2 or a most 2 cwt. of Wethersfield and out of the 25 cwt. ordered only 6 cwt. of the Globe Danvers; so this lot will of course cut no figure. We do believe, however, that other houses who contracted for seed grown in Europe received a little over half a crop on contract, and this may cut some figure in keeping the prices down. However, we do not think that onion seed will be treated in the seed trade this season as "sugar" is in the grocery trade. We have written you the actual facts as they appear to us to-day."

Jerome B. Rice & Co. say: "We believe you have put the onion seed question about right and in a very good light, and think your article a grand, good item on this subject, for it covers the ground very completely."

D. Landreth & Sons say: "We quite agree with the tenor of your article on onion seed. Our information is that crops are short, and we have already had inquiries and orders from unexpected sources for large quantities, indicating a shortage. We think prices ought to advance."

J. M. Thorburn & Co. say: "Your information from California is probably as correct as ours. Regret we are not yet well enough posted to give views on the situation."

L. I. May & Co. say: "We have watched the crops very closely this season, and the outlook is

indeed a critical one. We think, however, that owing to the methods adopted by some houses the trade will be compelled to again sell it at what might almost be termed a loss, so small is the margin.

"The trade in general have used onion as a leverage to secure other orders, and this of course has had a tendency to keep the price down. We were greatly surprised to find that one of our eastern competitors, in his recently published preliminary price list offered Wethersfield and Danvers at \$1 and \$1.10, and we are in a position to state positively that in many instances dealers buying in small lots of not over five pounds have been quoted at figures below those above given, the object being to secure the order by a special low price on onion seed, which is almost certain to be made up on some other article on the same order. This we do not consider legitimate. We believe in basing the price of onion seed the same as on all other seeds, namely, on the cost of production and percentage of yield.

"In regard to catalogue prices on onion seed we would say that, owing to certain eastern competitors, who make a specialty of the mail order business and who will not sell to the trade, the selling price to a certain extent is governed by their actions, and we regret to say that only last year one firm, who makes a specialty of this class of trade, issued a standing offer to deliver to any parts of the United States leading varieties of onion seed in lots of ten pounds, assorted varieties, for \$10, this being lower than regular wholesale prices.

"When such a condition of affairs exists seedsmen who are trying to do a legitimate business and make a uniform profit are compelled to act in this matter against their own wishes.

"Many of the consumers do not stop to consider that it costs a certain per cent to transact business and if a cut is made on one article it is generally made up on something else."

Wm. Meggatt says: "I am just getting out from a very severe sickness, which prevented an earlier reply to your favor of the 16th. I have carefully read your article on onion seed in last week's FLORIST. I think you have pretty nearly hit the nail on the head. There is one fact now about seed which a great many men overlook, and it is this: There are five times times the breadth planted of onion seed both east and in California that there was ten years ago. The breadth has increased much faster than the demand, and even if there is not more than half a crop there will be enough to go round at reasonable prices. Had there been a full crop both east and California in my opinion onion seed would not be worth much. The general claim is that Wethersfield Large Red is very short, but there is less red and more yellow being used every year, and in my opinion there will be enough of that to go round at reasonable prices."

Johnson & Stokes say: "We quite agree with your opinion that the trade is poorly satisfied with the ruling prices on onion seed, and we see no reason this season why we could not get an advance of at least 50 per cent over the prices at which we sold last year, the crop being very short, with the exception of a few varieties both in this country and Europe. Our own experience has been that we can sell quite as much or more onion seed at high prices than we can at the low prices which have been prevailing. Last year our catalogue prices were about as high as those of any house in the trade, and we sold out almost our entire supply, and do not believe we could have sold a pound more had our catalogue prices been half what they were. It is our opinion that many of the seedsmen scare off their trade among market gardeners and onion growers by making their prices too low. If with the short crop this year and their small stocks of old seed carried over the seedsmen do not make money on what onion seed they get on their contracts it will certainly be their own fault."

Northrup, Braslau & Goodwin Co. say: "We are much pleased to note you propose giving the true state of the onion seed market. We realized a shortage some weeks ago and immediately advanced our price. The trade (wholesale and retail) are in a position to make a price on onion seed the coming season that will pay them a handsome profit, as every pound harvested and in the country will be in demand, and why not do it?"

Z. De Forest Ely & Co. say: "We really are at sea and do not feel that we possess at the present writing sufficient data to give an opinion that shall be valuable. We have had demands from several houses in the last week each wanting from 1 to 2,000 pounds of Red Wethersfield onion, but we are inclined to think that they are all working for the same order."

Jas. Vick's Sons say: "We most emphatically agree with your remarks regarding price of onion seed. The price has been cut so much of late that there is very little eastern grown seed on the market, many dealers selling the cheap California grown as 'just as good.' California grown seed can be sold at wholesale for less than it actually costs to produce the superior eastern grown seed. We have for years endeavored to keep up the price to an honest figure, but last year as there was no hope of reform by setting a good example we cut the price of Yellow Globe Danvers to \$1 per pound. The crop of onion seed will be very short this year."

A leading Canadian house says: "Your remarks on the situation of onion seed are quite correct and opportune, for the past few years it has been the most uncertain commodity upon the list, and prices have been unnecessarily and ruinously cut, seemingly with the object to capture trade, but resulting in failure to attain the desired end, as the cutting of prices on a staple commodity is not unlike small-pox, very catching and dangerous to the victim. It may be that the past season's indulgence and experience will have had a good medicinal effect, and that the patients so afflicted will now have stronger minds and more desire to sell at profitable prices, and thus contribute to healthy business prosperity. There is undoubtedly a short crop of onion seed, both American and European growth, but there may be enough to meet requirements, with nothing in the way to prevent fair and profitable prices, if seed houses who issue catalogues will agree to co-operate and list at a uniform scale of prices for staple sorts, but how to accomplish this will be a matter for someone who will act on behalf of the general interests of the trade. Perhaps the AMERICAN FLORIST would continue their good offices to attain the desired end by issuing a circular to every seed house who issues a catalogue asking if they will agree to such a scale of prices, and to print and adopt them for season 1895. If they so agree, to send you at once their views, naming prices that in their judgment would be desirable, you to be the sole arbitrator, and decide from the majority of replies upon the list of prices for adoption, which would be mailed promptly. Replies would require to be sent you immediately on receipt of your circular, that no time may be lost. This is merely a suggestion; if thought well of it might have good results for the coming season's trade and establish more friendly relations."

MR. FRED S. PLANT was married October 24 in California.

BLUE GRASS has advanced again to about \$9 per 100 pounds.

VISITED CHICAGO THIS WEEK: E. V. Hallock, R. Engelmann, Henry A. Salzer, H. W. Buckbee, Thos. N. Griswold.

WE REGRET to announce the death of the wife of Mr. M. E. Fagan, chief of Seed Division, U. S. Dept. of Agriculture.

ECKFORD'S new white sweet pea Blanche Burpee is now being offered to the catalogue trade by W. Atlee Burpee & Co.

THE Telegraph Code committee are perplexed by the new jumping bean and enquire if it should be included in the code. Will some one reply?

GRAND RAPIDS, MICH.—A. J. Brown & Co., seedsmen, report a good season and collections very fair. The bean crop of Michigan, however, is only about one-half; peas fair, clover short.

GEORGE SPROULE, for a number of years bookkeeper for D. Landreth & Sons, Philadelphia, died on the 11th inst. of injuries resulting from being struck by a cable car about three weeks previously.

SHIPPING COALS TO NEWCASTLE. It is reported that a prominent Philadelphia seed house shipped many thousand pounds of Red Top and White Flat (Strap Leaf) turnip to Europe this fall; these two varieties are very scarce; not only abroad, but in this country, and this seed may find its way back to the United States at a profit to the shipper, even if a high figure was paid for it.

VON SIONS.

TRUE DUTCH STOCK.

\$ 1.75.....per 100

\$16.00.....per 1000

\$14.00 per 1000 in 5000 lots.

Z. DE FOREST ELY & CO.,

1024 Market Street,

PHILADELPHIA, PA.

BULBS!

Hyacinths

Narcissus

Tulips

Crocus

Lilium

etc.

At Reasonable Prices.
Just Received,
Limited Quantity.

White Roman Hyacinths,
12-15.
Dutch Hyacinths
for Forcing.

Paper White Grandiflora,
Polyanthus, Forcing &
Bedding Hardy sorts.

Single Early Named,
in sorts for bedding,
5000 for \$25.00.

Single Early Mixed,
5000 for \$22.50.

Large Yellow, Cloth of
Silver, Cloth of Gold,
per 5000 \$12.50. In
mixed sorts, per 6000
\$11.00.

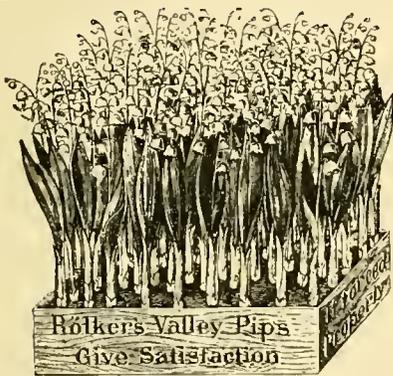
Harrisii, 5-7, 9-11, 11-14.
Longiflorum, 5-7.

Candidums, Callas, Chinese
Narcissus, Berlin Pips Lily of
the Valley from cold storage
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C. H. JOOSTEN,

3 Coenties Slip,

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BEST GERMAN FORCING PIPS

\$9.00 the 1000 by the box of 2500;
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Less ten per cent. for prompt cash.

August Rölker & Sons

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**Seedling
Peach Pits**

FOR SALE.

Per 100 lbs.....\$ 2.00
Per Ton..... 30.00

COX SEED AND PLANT CO.

411, 413 & 415 Sansome Street,
SAN FRANCISCO, CAL.

Hybrid Perpetual Roses,

Worked low on the Manetti Stock, offer the best re-
sults to the florist, blooming freely and giving plenty of
cuttings for propagating quickly. Fine plants for sale
by the 100 or 1000, at low rates.

Price Lists to applicants. Address

WILLIAM H. SPOONER,

JAMAICA PLAIN, (Boston), MASS.

THE BROWN BAG-FILLING MACHINE CO.,
MANUFACTURERS OF
AUTOMATIC MACHINES FOR PUTTING UP SEEDS,
FITCHBURG, MASS.

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**ONION SETS,
SWEET PEAS**

Vaughan's Seed Store,
New York: CHICAGO:
26 Barclay Street. 146-48 W. Washington St.

AND A GENERAL LINE OF FLOWER SEEDS, GARDEN TOOLS, ETC.

BULBS. BULBS. BULBS.

In lots of 200 in one or of several sorts
we furnish DELIVERY INCLUDED,
and sound Bulbs guaranteed
on arrival.

AURATUM,	7-9,	per 100,	\$4.00
"	9-11	"	5.50
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SPECIOSUM Rubrum,	8-9	"	5.00
"	9-11	"	8.00
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"	9-11	"	10.00
LIL. LONGIFLORUM,	7-9	"	4.00
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ORDER AT ONCE. Orders now booked for Cycas
revoluta stems. Delivery February to May. Send
for our new Catalogue. Interesting and novel.

H. H. BERGER & CO.,

(Established 1878.) SAN FRANCISCO, CAL.

WE SELL BULBS

Special low prices to

Florists & Dealers.

WEEBER & DON,
Seed Merchants and Growers.

114 Chambers Street, NEW YORK.

READY NOW.

Black Calla Bulbs

Extra size, \$10.00 per 100.

CASH WITH ORDER.

CHAS. SCHWAKE,
404 E. 34th Street, NEW YORK.

Choice Florist Seeds.

Pansy, Calceolaria, Primula, Cineraria,
choicest strains, at 25 and 50 cts. per trade packet.

Special quotation on BULBS.

W. A. MANDA,

The Universal Horticultural Establishment, SOUTH ORANGE, N. J.

August Rölker & Sons

AUCTION ROOMS,

205 Greenwich Street, NEW YORK.

Sales every Tuesday and Friday during Sep-
tember and October.

Palms sold on Tuesdays only.

ROSES.

Clean, healthy stock.

MERMETS,	BRIDES,	SUNSETS,
NIPHETOS,	LA FRANCE,	PERLES,
MME. WATTEVILLE,	BON SILENE,	METEOR,
	PAPA GONTIER.	

Strong plants, from 3-inch pots, \$5 per 100; \$75 per 1000.
WOOD BROTHERS, Fishkill, N. Y.

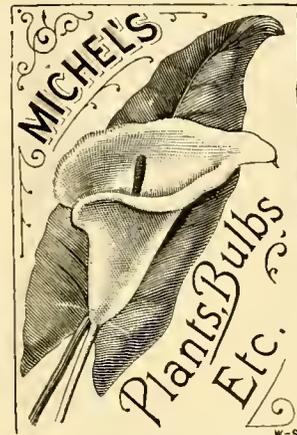
Two Year Old Roses.

FINE LARGE PLANTS. Per 100

BRIDE and MERMET.....	\$8.00
PERLE and SUNSET.....	9.00
GONTIER and SOUPERT.....	8.00
LA FRANCE and WHITE LA FRANCE.....	8.50

And all other standard varieties. Send list for
prices. Also immense and fine line 2½-inch pot Roses.
Finest Rex Bezonnias, 3-in. pots, \$5.00 per 100.
TERMS CASH WITH ORDER.

THE NATIONAL PLANT CO., Dayton, O.



Write for Wholesale List.

MICHEL PLANT AND BULB CO.,
ST. LOUIS, MO.

Mention American Florist

BULBS.

Hulsebosch Bros.

ENGLEWOOD, N. J.

SELL ALL KINDS CHEAP.

Mention American Florist.

Roses, Plants, Trees, Etc.

We offer a choice stock of

**Roses, Bedding Plants, Shrubs,
Trees, Etc.,**

IN QUANTITIES.

5 Acres under Glass. 30 Acres in Trees, Shrubs, &c.

Send in your list and will quote lowest
prices by return mail.

Catalogues Free. Address

NANZ & NEUNER,
LOUISVILLE, KY.

Mention American Florist.

ROOTED Verbena CUTTINGS

Ready for Immediate Shipment.

They are perfectly healthy, and the best
named varieties.

Price, \$1.00 per 100; \$8.00 per 1000.

J. L. DILLON, Bloomsburg, Pa.

Lily of the Valley.

First quality for forcing, November delivery.
Strong pips, \$5 per 1000. Cash with order.

H. WREDE, Luneberg, Germany.

FLORAL DESIGNS

The Cut Flower Worker's Friend. Fine book
of 160 pages. Send \$3.50 for it, to

J. HORACE McFARLAND, Harrisburg, Pa.

London, Ont.

Flowers, notwithstanding the recent frost and following rain storms, has put an end to outdoor stuff, are still more plentiful than customers. Roses are in better supply and of better quality than usual at this season. Carnations are looking well and are coming in in sufficient quantities to supply the demand. There is a good promise of a glut when chrysanthemums come in with a probability of slashing in prices.

London has now five flower stores, three having opened within a month, the latest being Mrs. Woodliffe's, re-opened, who conducted a store a few years ago and was burned out, and Westlake, a photographer, has turned part of his place into a store. Already there is some lively competition and cutting of prices, roses suffering most.

J. Gammage & Sons, who have recently had their store renovated and refitted, had an opening on September 20. It was something new in London and took well. The store was tastefully decorated. No flowers were sold, each visitor being presented with a rose or carnation or two on leaving.

A. G. Stephens is building a 20x50 foot house.

M. J. Cole is cutting some good Beauties, Testouts and Whitneys.

M. J. Kelly, who started about a year ago, recently offered his stock and houses at auction. Part of the stock was sold but no bid could be had on the houses and property. G.

MILLBROOK, N. Y.—The Millbrook Hort. Society will hold a chrysanthemum show November 6 and 7. Full details may be had on addressing the secretary, Mr. L. Kennedy.

CEDAR RAPIDS, IOWA.—J. C. Vaughan, Chicago, and J. T. Temple of Davenport, Ia., were callers last week. I. N. Kramer & Son are putting in a new boiler and will run by hot water under pressure.

NASHVILLE, TENN.—The Nashville Floral Society has issued a premium list for a chrysanthemum show to be held November 6 to 10. Copies may be had by addressing the secretary, Mr. R. B. Currey, Nashville, Tenn.

NEW HAVEN, CONN.—The New Haven Chrysanthemum Club is arranging to give a chrysanthemum show on an extensive scale, November 7, 8 and 9, at the Armory. The sum of \$200 has been appropriated for premiums.

ELGIN, ILL.—Mr. Geo. Souster, the florist, was recently attacked by his large mastiff and badly lacerated. His injuries were at first feared to be fatal but a thorough examination proved them less serious, though certainly bad enough.

HAMILTON, ONT.—The chrysanthemum show of the Hamilton Electoral Division Agricultural Society will be held November 7 and 8. Copies of the premium list may be had on application to the secretary, Mr. Walter H. Bruce, corner King and MacNab streets.

NEW BEDFORD, MASS.—The Gardeners' and Florists' Club will hold a chrysanthemum exhibition in City Hall, opening the second Monday in November. Much interest centers in the competition for the prize cup, which has been won by Mr. John T. Rooney two years successively, and which, should he win it this year, will become his property.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant ads. not admitted under this head.

SITUATION WANTED—In a retail store by a young man of 20. Best of references. Address BROOKLYN, care American Florist.

SITUATION WANTED—In a medium sized place, by a young man, 21, with experience among plants. Address Box 696, Waynesboro, Pa.

SITUATION WANTED—By first-class florist; German. Can take entire charge of place. Also mushroom grower. 749 Sheffield Ave., Chicago.

SITUATION WANTED—By young man in greenhouse or store; work of any kind; some experience. Good reference. J. M. HARP, Piqua, Ohio.

SITUATION WANTED—As foreman or assistant foreman and propagator in first-class commercial place. G. TARR, Chestnut Hill, Phila., Pa., care John Burton.

SITUATION WANTED—By a competent gardener and florist, 15 years' experience; well posted in and outside work; southern states preferred. Address FLORIST, care C. S. Tait, Brunswick, Ga.

SITUATION WANTED—By a young man who is well experienced in roses, carnations, chrysanthemums and spring stuff. Address FLORIST, care Charles Bauer 332 Brook St., Phila., Pa.

SITUATION WANTED—As assistant, greenhouse or store work; can take charge; experienced, reliable, abstainer; good salesman. References. Address E P P, care American Florist.

SITUATION WANTED—By a young German; age 22; in a private or florist establishment; 5 years' experience in general routine. Best of references. Address OTTO DREHER, care R. Hannick, Newport, R. I.

SITUATION WANTED—Practical florist fully posted on all the requisites of commercial places, general propagation, items of the nurseries, best references, wishes situation where ability and experience is required. Address PRACTICAL, care Am. Florist.

SITUATION WANTED—In florist or seed business by an energetic young, experienced Dutch bulb grower. French, German and English correspondent; also good salesman. Not afraid of any work. First-class references. PARTICULARS, care Am. Florist.

SITUATION WANTED—By competent florist and gardener; German, single, good habits; 15 years' experience. Well posted in roses, carnations and choice cut flowers, also plants in and outdoors. Commercial or private. Good references. Address E B K, care American Florist.

SITUATION WANTED—By practical rose grower who devoted all his lifetime in cultivation of all kind of roses to develop their beauty to a perfection. Well posted in all kinds of cut flowers. Capable to take entire charge of largest establishment in this line. To responsible parties the greatest satisfaction will be assured. Satisfactory references. Address ROSE GROWER, Forest Glen, Cook Co., Ill.

WANTED—By young, single man, age 30, sober and industrious, employable in a commercial place. Western New York or Ohio preferred. Address WILLING, care American Florist.

WANTED—A first-class night fireman; 75,000 feet of glass, built or in course of building; steam and hot water; married man, no children, wife to take cottage and board young men; send references. ANCHORAGE ROSE CO., Anchorage, Ky.

WANTED—At once, competent florist and gardener, one with some knowledge of fruit growing preferred. Must be sober, industrious and capable of taking charge. Address with age, experience, reference, wages expected. F. W. CUSTER, Pontiac, Ill.

FOR SALE CHEAP—Large second-hand florist's leg Box, value about \$75. VAUGHAN'S SEED STORE, 88 State Street, Chicago.

FOR SALE OR RENT—Greenhouse, well stocked, 2500 square ft. of glass. Reason, bad health. For particulars inquire THEO. NOBLE, Green Bay, Wis.

FOR SALE OR RENT—Greenhouse and celery garden. Good business; no competition. Bargain on account ill health. Shares to right party. W. J. OLDS, Union City, Pa.

FOR SALE—Small, well stocked greenhouse, in a splendid town; no competition. Sickness the cause of selling. Address FLORIST, care Tuscola Floral Co., Tuscola, Ill.

FOR SALE CHEAP—Large, new hard wood and glass florist's refrigerator. Used at World's Fair. Price reduced to \$175. VAUGHAN'S SEED STORE, 146 & 148 West Washington St., Chicago.

FOR SALE—Or will exchange for eastern property 10 acres choice land under irrigation near Los Angeles, California; suitable for orange or other fruit raising. Price \$300, of which \$200 may remain on bond. ALFRED M. HARDES, 84 South St., Morristown, N. J.

FOR SALE OR TO LET—Seven greenhouses and floral store, the oldest and only first-class establishment within one hundred and fifty miles of this city; cannot grow one half the flowers demanded. A rare chance to make money in a large and the most rapidly growing city in the world. Reasons for selling, am about to retire from all business. For particulars address A. McCORMICK, 921 East Third St., Duluth, Minn.

WANTED.

Several thousand 1, 2, 3 year old seedlings of Evergreens (Blota, Thuja, Cypress, Retinospora), Laurus nobilis, and Pear, Quince, Apple, Plum, bedding stock, Roses. Send catalogue and prices to Alligator Ranch, Dickinson, Texas. T. W. DOERRIG.

FOR SALE.

Florist store in a city of 40,000 inhabitants, one block from 2 ferries to N. Y. city; also opposite R. R. depot on principal thoroughfare, 5 distinct trolley lines pass the door; the only store in the city of its kind, store 25x35, building fixtures and all complete. For particulars apply J. J. PETERS, Long Island City, N. Y.

WANTED.

I would be pleased to receive Catalogues from dealers in general greenhouse stock.

R. HOFFMANN, Hillsdale, Mich.

Gardener L. S. & M. S. Ry. Co.

FOR SALE OR RENT.

Greenhouse plant of 5,000 square feet of glass, heated by steam; well stocked; central location of the main street of live town, 4000 population; railroads connect to all points of the U. S. Will sell ground, greenhouses, stock included, cheap; or will lease for term of years. Must quit on account of sickness. Address quick. C, care Am. Florist.

FOR SALE, OR WOULD LEASE.

One of the best places in the state; established 25 years, with 10,000 feet of glass and two acres of land. A chance of a lifetime. Electric cars pass every 15 minutes. Sewer and electric light. Everything in best running order, and well stocked. Address P. GORMLEY, Worcester, Mass.

P. GORMLEY, Worcester, Mass.

FOR SALE.

Stock, good will, and fixtures of established paying florist business in thickly populated portion of Philadelphia, on a good business street. Trolley cars pass the door. Attached to store are three greenhouses, containing 1400 feet of glass. A very showy place. Low rent. Will sell cheap to quick buyer. Address ARTHUR MALLON, Jr., 2432 Ridge Ave., Phila., Pa.

FOR SALE.

A FINE BULB, PLANT OR SEED FARM IN WESTERN NORTH CAROLINA.

Location 30 miles from Asheville, the famous resort and sanitarium, and in the Piedmont region of the state. An entirely level stretch of land lying along the Catawba river and the Richmond & Danville R. R.; is a mellow, fertile, sandy loam, noted for its fine crops, and known locally as "river bottom." Would make a fine nursery for fruits or ornamentals. Adjoining tracts can be purchased also if desired. For terms and further particulars address REV. J. C. BROWN, Greenlee, N. C.

TO WHOM IT MAY CONCERN:

The firm of UHLMANN & HAISCH, of Memphis, Tenn., has been dissolved by mutual consent, and is succeeded by E. UHLMANN, who will carry on the business of florist in all its branches, and who will endeavor to maintain the enviable reputation gained by the late firm for high artistic work, and for elegance and promptness in the execution of all orders.

PÆONY BULBS.

Large Clumps, \$40 per 100.

Will divide into 3 to 5 parts. Every florist should have 100. They pay. Write for 1000 price.

BRANT & NOE,
FOREST GLEN, ILL.

Pansies Worth Raising.

STRONG PLANTS, PARTLY IN BLOOM.
1000 for \$4 00; 5000 for \$15.00.
Free on board of express.

ONLY A FEW MORE LEFT. Cash with order.
SEED (1894 only), as advertised before.
CHRISTIAN SOLTAU,
199 Grant Avenue, JERSEY CITY, N. J.

A. Farleyense Fern

2-inch.....\$12.50 per 100
3-inch..... 17.00 per 100
4-inch..... 40.00 per 100

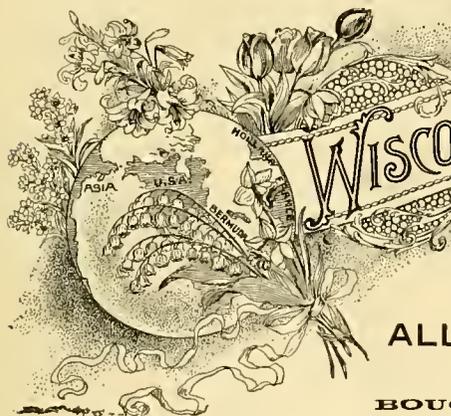
Largest stock in the west. Satisfaction guaranteed.

BAKER BROS.,

P. O. Box 72, KANSAS CITY, MO.

CARNATIONS AND VIOLETS.

Marie Louise, strong, healthy, large clumps, \$5.00 per 100; \$5.00 per 1000.
The standard varieties of CARNATIONS, \$6.00 per 100; \$60.00 per 1000.
LOUIS A. GUILLAUME, East Onondaga, N. Y.



Wisconsin Flower Exchange FOR Chrysanthemums and VIOLETS, We are the People.

All kinds of "MUMS" always on hand.

ALL COLORS. ALL SIZES. ALL PRICES.

Roses, Carnations, Vallay, and all other Flowers. Fine stock.

BOUQUET GREEN Now Ready.

AZALEAS Now Ready.

WISCONSIN FLOWER EXCHANGE, 468 Milwaukee Street, MILWAUKEE, WIS.

PANSIES...

Every Florist Claims the Best.

I am willing to have mine tested alongside of any in the market. Over a thousand florists used them last season, were pleased with them and made money out of them.

Have any quantity of fine plants ready now. They can not be offered in competition with cheap grown seed, but quality considered, are remarkably cheap at the price.

By Mail or Express, prepaid, 75c. per 100; by Express at your expense, \$5.00 per 1000. A Liberal discount will be allowed on large orders.

Geraniums.

ROOTED CUTTINGS.

The best of the better sorts. Not one that is not A1.

Labeled, \$1.50 per 100; \$12.00 per 1000. Without labels, \$1.25 per 100; \$10 per 1000.

Carnation Cuttings in season. I love to answer inquiries and give estimates.

ALBERT M. HERR, L. B. 496, Lancaster, Pa.

PANSIES.

The Jennings Strain of large flowering and fancy Pansies ready October 15th and on to May 1st.

THE JENNINGS STRAIN ALWAYS SATISFACTORY.

Price free by mail 60 cts. per 100; by express 1000, \$5.00; 5000, \$20; 10000, \$35. All colors mixed.

Pansy seed, finest mixed, 2500 seed \$1.
" yellow black eye, 2500 seed \$1.

E. B. JENNINGS, Wholesale Pansy Grower,
Lock Box 254. SOUTHPORT, CONN.

PANSY SEED.

NEW CROP NOW READY. Very fine mixture of large flowering varieties and choice colors, especially selected for florists' use. 1 oz. \$3.00.

NEW GIANT PRIZE PANSY, finest strain in the market. 1 oz. \$5.00.

Low prices on Liliun Harisii, Longiflorum, Roman Hyacinths, Lily of the Valley, etc.
Special low prices on Rustic Baskets.

HERRMANN'S SEED STORE,

413 EAST 34TH STREET,

Near Long Island Ferry, NEW YORK.

Pansy Plants.

EXTRA FINE STRAIN.

75 cents per hundred; \$5.00 per thousand.

ESSEX HEIGHTS FLORAL CO.,

..... BELLEVILLE, N. J.

CARNATIONS.

Rooted Cuttings, Young Plants, Field-Grown Plants in season. Send for prices.

Geo. Hancock & Son, Grand Haven, Mich.

CARNATIONS.

DAYBREAK. \$6.00.
LIZZIE MCGOWAN. }
PURITAN. } \$5.00.
TIDAL WAVE. }
EMILY FIERSON. }

MUMS. Stock plants.

Early flowering varieties.

MME. FERDINAND BERGMAN, KATE BROWN,
whites; J. G. WILLEDDIN, yellow;
ADVANCE, pink. 15c. each.

CASH WITH ORDER.

S. J. REUTER, Westerty, R. I.

CARNATIONS

MRS. E. REYNOLDS. \$8.00 per 100
BUTTERCUP. 6.00 "
WILDER. HINZE's and others. 5.00 "
CYCLAMEN, 3 1/2-inch pots. 6.00 "
GENISTAS, 5-in. pots, nice stocky plants 12.00 "
SMILAX, 2 1/2-inch pots. \$12.00 per 1000

Address J. G. BURROW, Fishkill, N. Y.

THE COTTAGE GARDENS,

Queens, Long Island, N. Y.

WHOLESALE CARNATIONS.

"HELEN KELLER"

The new Carnation; pure white, delicately marked with red.

Strong field-grown plants \$3.00 per doz.; \$15.00 per 100. Second grade, six to eight blooming shoots, \$2.00 per doz.; \$12.00 per 100.

Orders may be sent either to

JOHN N. MAY, EDWIN LONSDALE,
Summit, N. J. Chestnut Hill, Phila.

New Carnations our Specialty

FRED. DORNER & SON, FLORISTS,

LA FAYETTE, : : INDIANA.

CARNATIONS

ROOTED CUTTINGS

now ready, of desirable kinds for EARLY SUMMER BLOOMING.

Seedlings, Novelties and Standard sorts in season.

C. J. PENNOCK,

The Pines. KENNETT SQUARE, Chester Co., PA.

CARNATIONS.

2000 Mrs. Fisher Carnations, strong clumps from open ground, with buds. \$4.00 and \$5.00 per 100.

IF WANTED, ORDER AT ONCE.

PAUL BUTZ & SON, New Castle, Pa.

ALWAYS mention the AMERICAN FLORIST when writing to advertisers.

CARNATIONS

FIELD-GROWN.

Large, strong and healthy.

MCGOWAN, WM. SCOTT, \$12.50 per 100
SILVER SPRAY, PURITAN, }
AURORA, VAN LEEUWEN, } \$10.00 per 100
ANGELUS, DAYBREAK, }
HECTOR,
GRACE WILDER,
HINZE'S WHITE.

Price on application.

AMERICAN BEAUTY and other Roses, 4-inch.

A. S. MacBEAN, Lakewood, N. J.

Mention American Florist.

GOOD FIELD PLANTS

— OF —

Sweetbrier Carnation.

\$15.00 PER 100.

Other varieties on application. . . .

EDW. SWAYNE,

KENNETT SQUARE, PA.

CARNATIONS

After the early chrysanthemums are thrown out many florists plant carnations. We have a few thousand good plants heeled in in cold house suitable for this purpose which we offer, to close them out, at

\$4.00 PER 100.

PORTIA, TIDAL WAVE,
GARFIELD, HINZE'S WHITE.

J. L. DILLON,

BLOOMSBURG, PA.

CARNATIONS

Strong plants in cold-frames.

White Dove, White Wings, Lamborn, Hinze's White, \$3.00 per 100.

Garfield, Mrs. Fisher, Blanche, Portia, Attraction, Golden Gate, Ben Hur, Mrs. Reynolds, Richmond, Mrs. Hitt, J. J. Harrison, Golden Triumph, Louise Porsch, Nellie Lewis, Purdue, Spaitan, Dawn, \$4.00 per 100.

MARIE LOUISE VIOLETS, from 2-inch pots, \$2.50 per 100; \$20.00 per 1000.

TERMS CASH WITH ORDER.

JOSEPH HEINL, Jacksonville, Ill.

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

Toronto.

Chrysanthemums are quite the rage now, and everybody wears them. There are quantities of them coming in, and the bloom appears to be of a much better class than in former years. I notice a good many of the white pompon being worn by ladies; it is very pretty and "fetching." In yellows Whilldin seems to predominate. Some very fine roses are to be seen in the stores too now; Dunlop had some magnificent Beauties the other day. Trade is picking up proportionately as outside gardens decline, but geraniums, cannas and a few other of the hardest bedding plants still drag out a miserable existence; a frost of about 10° in strength would be a mercy in more ways than one now. This October has been a most enjoyable month, especially to lovers of nature.

Mr. Geo. Philip was chosen superintendent of the chrysanthemum show at the last meeting of the association by the casting vote of the chairman. Mr. P. has done good service at former shows and no doubt with his experience at them will do the best he can to have the show ready for the judges on schedule time. Mr. C. Arnold will take charge of the decorating, and that it will be well done goes without saying.

The Mimics Industrial School trouble was again up for discussion and as usual caused a little acrimonious feeling. The manager and the gardener were expected down with books to show that there had been no underselling, but they did not show up, so the matter had to be laid over again. It appears to me that those who complain of this institution on account of underselling have not a leg to stand on; there was no market price the last part of last season, and florists themselves sold goods for whatever they would fetch sooner than take them home again. It was altogether to the interest of the gardener to get as high a price as possible for goods in order to make a good showing to the manager, but it could scarcely be expected that he should keep his prices to the top notch when others were selling away below. If, however, the ground is taken that the institution should not go into the business at all on account of free labor, etc., then there might be some consistency in the complaints and I should feel much inclined to side with the complainers, but even then there is the consideration that the institution is to a large extent kept up by voluntary contributions and that these boys must be given employment and taught trades in order to give them any chance at all in after life. Everything considered I think the matter should be dropped; very little harm has been done to the trade so far, and the present agitation will probably show the managers of the institution that it would be unwise for them to go into that line of business more extensively than they are. E.

VIOLETS.

Marie Louise,
strong, field grown plants.
Healthy stock.

ANDREW WASHBURN, Bloomington, Ill.
Mention American Florist.

JULES DE COCK, NURSERIES:
GHENT, BELGIUM,
Offers to the trade only good plants.

10,000 *Arsenaria excelsa*; 30,000 *Azalea indica*; 20,000 *Azalea mollis*; 150,000 *Begonia* and *Gloxinia* Balbs. best varieties; 100,000 *Palms*, clean plants, all sizes; 10,000 Sweet Bays, standards and pyramids.
CASH WITH ORDER.

ARECA LUTESCENS THE MOST GENERALLY USEFUL PALM

in commerce. We have them in all sizes, and Prices to suit.
CERTIFICATE OF MERIT was awarded for this sterling Decorative Plant at the convention held at Atlantic City, August, 1894. Send for price list.

EDWIN LONSDALE, WYNDMOOR STATION, Phila. & Reading R. R. from 12th & Market Sts., PHILA.

YELLOW QUEEN CHRYSANTHEMUM.

The finest very early variety ever introduced. (See this paper Oct. 13, page 245.)

Extra Strong Stock Plants, 50 Cents each.

MRS. E. G. HILL, the best early pink.....25 Cents each.
MISS KATE BROWN.....20 Cents each.

10 per cent. discount for cash for all orders over \$2.
All the other best varieties at reasonable prices.

JOHN N. MAY, Summit, New Jersey.

CHRYSANTHEMUMS

Stock plants, true to name, from bench or pots. Flowers cut.

MRS. E. G. HILL, QUEEN, NIVEUS, GOLDEN WEDDING, 20 cts. each.

MISS K. BROWN, IVORY, WANAMAKER, PRES. W. R. SMITH, MRS. R. CRAIG, J. H. TAYLOR, WHILLDIN, MRS. E. D. ADAMS, LINCOLN, WIDENER, NEWETT, MADEIRA, BALSLEY, DOMINATION AND MOREL, at 15 cts. each.

Order soon, as stock will not be saved unless sold.

ROOTED CUTTINGS of first four, \$3.00 per 100; of others, \$2.50 per 100. Cash with order, except on large orders from persons known to us. No order for less than \$2.00.

W. J. & M. S. VESEY,
90 Thompson Ave., FORT WAYNE, IND.

For Sale Now.

5000 Geraniums, rooted cuttings, best new and old varieties, \$15.00 per 1000.
300 Chinese Primroses, 4 inch pots, from German seed, with flower buds, \$6.00 per 100.
200 *Primula Obconica grand.*, 4-inch pots, in bloom, \$6.00 per 100.
200 *Cineraria*, 4-inch pots, strong, 10c.
100 " 6-inch pots, strong, 18c.
200 *Vinca Harrisonii*, strong clumps, \$5.00 per 100.
500 Cannas, field-grown clumps, \$5.00 per 100.
Coreopsis lanceolata, *Achillea "The Pearl,"* Hardy *Phlox*, *Helianthus*, *Hibiscus*, crimson eye, and other Hardy Perennials.

HARDY ORNAMENTAL SHRUBS IN VARIETY.

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San Francisco.

The new place of Mr. Robert Armstrong at Mountain View, Santa Clara County, consists of 200 acres of fine land. He has built two carnation houses, one 20x50 and the other 14x30; a house 10x30 for Adiantum cuneatum, three rose houses each 18x100 and two propagating houses, one 6x100 and the other 6x30.

His carnations are Daybreak, Grace Wilder, Silver Spray and Portia. In roses he grows Bride, Bridesmaid and Mme. Cecil Brunner. The last named rose pays well on the Pacific coast.

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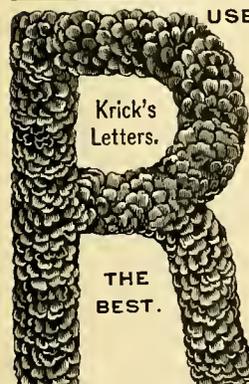
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The first chrysanthemum show of this season in England was held on September 4. Among the varieties shown were Vice-President Hardy, Mrs. J. R. Pitcher, Blushing Bride, Mme. Desgrange, Mme. Edouard Rey and Flora. This seems a very early date to find chrysanthemum flowers sufficiently advanced for exhibition; a visit to our leading chrysanthemum growers would show little in the way of bloom at that season.

A recent writer in the London *Gardener's Chronicle* speaks very favorably of carnation Lizzie McGowan, which he has been trying recently. He considers the flowers small, but says it is a most prolific bloomer, the flowers being so fragrant and pure in tint.

We have heard several complaints from growers in this country regarding chrysanthemum Golden Wedding, it having "gone off" suddenly without any apparent reason. The same trouble is reported by English growers, and the opinion seems to gain ground that this fine variety has some defect in constitution which makes it uncertain. It may be that atmospheric conditions affect it more readily than some other varieties; but this peculiarity is certainly a serious defect.

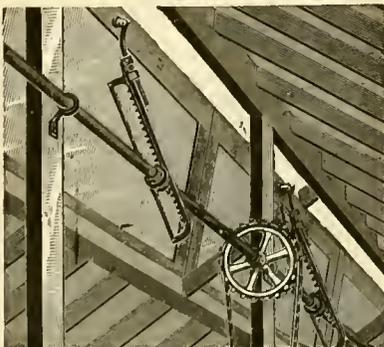
Sophro-Cattleya eximia is another of Mr. Seden's bi-generic hybrids, a cross between Sophronitis grandiflora and Cattleya Bowringiana. The flowers are in shape like the sophronitis, but very much larger, the color a brilliant rose, covered with a network of dark veins. The lip is deeper in color, with intense yellow at the base; habit of the plant dwarf.

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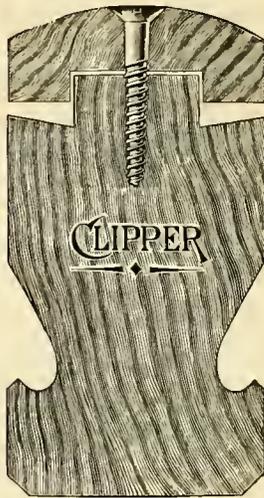
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I was also much pleased with the Cypress Hothed Sash you sent me, and shall probably order more this fall.
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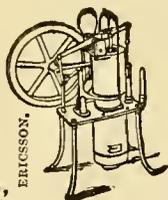
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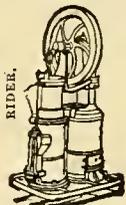
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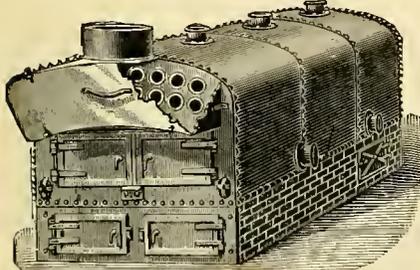
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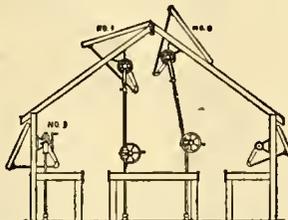
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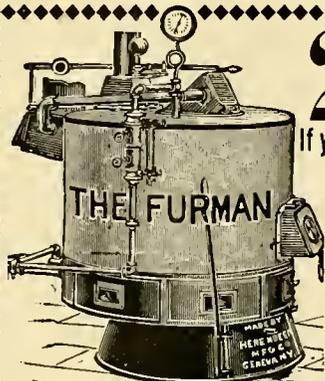
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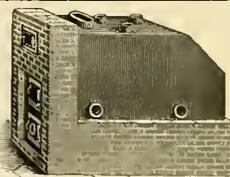
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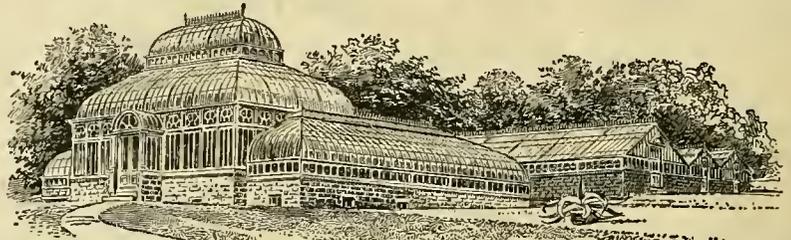
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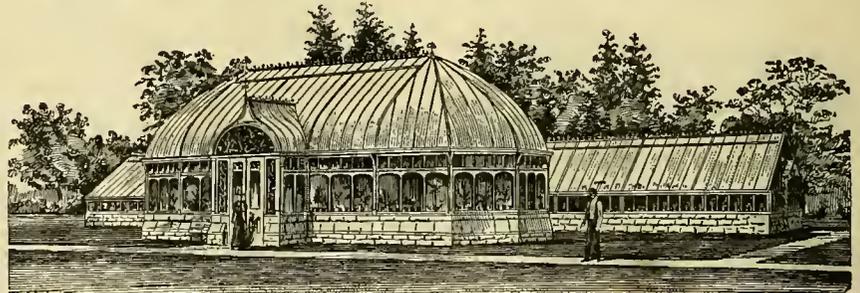
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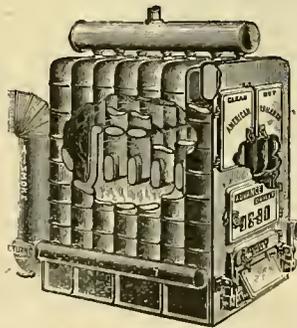
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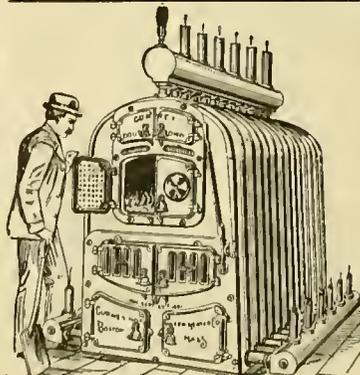
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Vol. X. CHICAGO AND NEW YORK, NOVEMBER 3, 1894. No. 335

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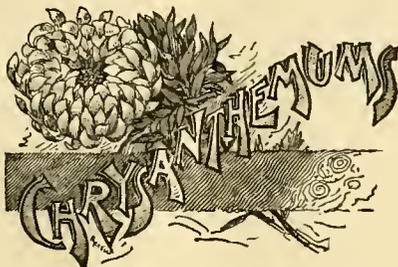
SOCIETY OF AMERICAN FLORISTS.

J. T. ANTHONY, Chicago, president; ROBERT KIFT, Philadelphia, vice-president; WM. J. STEWART, 67 Bromfield St., Boston, Mass., secretary.

The new officers to be installed Jan. 1, 1895, are: EDWIN LONSDALE, Chestnut Hill, Philadelphia, president; E. C. REINEMAN, Allegheny City, Pa., vice-president; WM. J. STEWART, Boston, secretary; H. B. BEATTY, Oil City, Pa., treasurer. The 11th annual meeting will be held at Pittsburg, Pa., August, 1895.

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Chrysanthemums at Ernst Asmus'.

Some years ago when hybrids were forced extensively in winter for the New York market, the roses took the place of the chrysanthemums as soon as these were finished. In these days of American Beauty, Belle and Meteor hybrid perpetual roses are no longer a profitable crop and valley, lilacs and carnations are about all the material there is left for a cut flower grower to fall back upon, if he grows chrysanthemum extensively. Only the earliest varieties can be got out of the way in time for carnations, and this is one great point in favor of the very early sorts, which are now multiplying so rapidly.

Mr. Ernst Asmus is one of the keenest and most observant, as well as most successful growers. Whatever he does is done with a well defined object in view, and when results are unsatisfactory he manages to come pretty near finding out the cause, and can always give a good reason for any method he may pursue. The price at which chrysanthemum blooms are now marketed leaves but a small margin between the cost of production and the total pecuniary results of the crop at best. Foreseeing this, Mr. Asmus has grown his plants to four or five blooms instead of to one or two. Individual blooms may suffer as to size to a greater or less extent, but they can be grown for less money, and at prices now prevailing this is the only plan possible, if a direct loss is to be avoided. Concerning some of the ambitious varieties now more or less prominent, Mr. Asmus talks in this manner:

"Viviand-Morel, which I began to cut on October 22, is grand this year. The flowers seem stiffer and more substantial than last year. On all other varieties I am later than most growers, but singularly enough I am first in the market with this.

"Mrs. Craige Lippincott, which was being cut at this time last year will be later with me. I was disappointed in it at first; it started upspindling and seemed to have no constitution, but it has now made a good strong growth and splendid foliage.

"Mrs. Whilldin turned out this year earlier than in other years, but the trouble was everybody had it, and it sold too cheap.

"J. H. White has got to go. It is too bad, for it has some grand points, but it has a tendency to drop its petals, and they say in the stores they can sell fifty of Ivory to one of this, so what's the use of growing it? We are 'out for the stuff.'

"Mrs. E. G. Hill. These are all cut. Sales of this variety have been unsatisfactory. The stem is not up to the standard, and they do not seem to want the color in New York.

"Marie Louise, now ready to cut, has too heavy a flower for the weak neck, and on that account must be condemned.

"Mrs. J. Geo. Ils, which is very late and does not yet show what it will amount to, I am afraid will have the same trouble. They tell me it will be a good large flower. That weak neck will never hold up a big flower.

"On the other hand, Pres. W. R. Smith has a tremendous stem and grand foliage, but the flower is not large enough for the stem.

"Harry Balsley is another variety with a weak stem. Its beautiful color is its only recommendation.

"The Queen is splendid every way; noble foliage and fine flowers. I have been cutting it every day for a week. It is a good keeper, and the longer it sits the whiter it grows.

"Niveus is going to be grand. Foliage, stem and flower are all No. 1. They are a nice even lot and could be cut now, but the petals will grow yet, and you don't improve a chrysanthemum by cutting it too early.

"Golden Wedding looked fine up to the time we had those three days of steady rain in September. The plants seem to have got chilled through, and since then have had rust and fungus awful bad.

"Mrs. Cliffe (Pink Pearl) I had to throw out. It was badly rusted, and the disease was spreading from it to other varieties near it. That is the only thing to do when rust appears. It is bound to spread if allowed to remain.

"Challenge. There is a variety that had the making of the grandest chrysanthemum out. Foliage, stem and flower about perfect, but I cannot keep the center buds from blasting. They all rot away when small, and we are forced to take side shoots for our flowers.

"Major Bonnafon with me does not promise very large flowers.

"Eugene Dailedouze will take another ten days before it will be ready to cut. It is very tall, but the stems are great, and the flower will be enormous.

"H. E. Widener seems to have lost constitution and will have to take a back seat. The first year we got flowers twelve and thirteen inches, but have never been able to do it again since that time.

"Domination is another we have got to drop. It is small and diseased. That is the way with chrysanthemums, you

NEW SOIL is accountable for a good deal of boasted skill in culture.

MAIL ads. at once for our special chrysanthemum number to be issued next week.

FICUS RELIGIOSA is the Religious Fig of the East Indies. W. R. Smith says that the natives will never tell a lie under this tree; so, to avoid inconvenient conditions they never plant it near their places of business.

have got to keep dropping and dropping every year.

"This is my first year with Minerva. It appears to be a good yellow, but looks a little bit soft.

"Two old varieties that still hold their own are Wanamaker and Lincoln. Neither of them are to be sneezed at. Lincoln promises to be as fine as ever.

"Maud Dean seems to grow better, and will be more even than last year. It will not be in for two weeks yet.

"Flora Hill is doing better than ever with me. It used to show rust badly, but is all right this year. You can let this variety sit as long as you like. It moves slowly, and won't drop.

"Mermaid is not nearly as strong as last year. It will be ready to cut in about ten days.

"W. N. Rudd will come in with Mermaid. It seems lighter in color than last season. When in perfection the ends of the petals in this variety split and branch out like an elk's horn, and it is not ready to cut until this takes place.

"Mrs. Jerome Jones will be very late. No other variety will compare with it for foliage. I wish we only had a yellow like it.

"The latest clear yellow we have is Dr. Covert. It will not be in for a month yet."

Notes Taken on Chrysanthemums October 23, 1894.

[These notes were intended for last week's issue but came too late to secure space in that number.]

MRS. E. G. HILL. This variety has come in with a rush since my last notes of a week ago, making more rapid progress with us than any other variety. Commenced cutting on the 20th. This, however, was at least a week later than some of the other growers were cutting the same variety. It is a very delicate light pink in color, and very beautiful. It is a pity that it has not a stiffer stem.

YELLOW QUEEN has also made rapid progress during the past week. It is very distinct and desirable, and ought to be useful both for cut flowers and as a pot plant, being sturdy in habit, of good form and a very good color.

MRS. CRAIG LIPPINCOTT has not made such rapid progress as either of the other two mentioned, not a flower being ready to cut at this writing, but in a day or two I think that half a dozen or so will be ready for the market.

EUGENE DAILLEDOUZE is progressing favorably, but it will not be ready to cut here for ten days or two weeks.

MUTUAL FRIEND is very distinct and large, and although some of the flowers are fit to cut, still they will be better if allowed to remain on the plants a few days longer.

MINERVA still keeps ahead of Mrs. Craige Lippincott, and is likely to cut a figure as a second early yellow in the future.

MARIE LOUISE still leads them all in earliness, and is certainly a grand early white variety. In my last notes on this variety I described it as a pure white. It has to remain on the plant, however, several days after being full developed before it assumes a pure white color. It is good at any stage.

MAJOR BONNAFFON is not ready to cut yet. On account of its dwarf habit it ought to become a favorite both as a pot plant and as a cut flower. These dwarf sturdy growers are preferable to the lanky varieties for all purposes.

MRS. J. GEO. ILS. This is very late, the color only just beginning to show on the most forward buds.

MAYFLOWER promises to be very large and full and graceful in form. Flowers

even now are seven inches across, but it will not be ready to cut for a few days yet. It is inclined to be early, however, and on that account in addition to its other good qualities it will be very valuable.

ERMILDA has apparently made very little progress during the past week. However, it is just in that condition that a few days will make a great difference in it. We are expecting to cut some prime flowers from Niveus, as it is showing up in good form. The same may be said of The Queen.

J. H. TAYLOR on account of its earliness may be valuable, but it is so undecided in color that it is not very desirable.

H. L. SUNDERBRUCH sustains the good things said about it last week, and it is certainly one of the best second early yellows that we have.

IVORY is being offered in the Philadelphia market in grand form; but mine are not nearly ready to cut yet, which goes to show that some florists' methods of growing and the surroundings have a great effect, not only upon the flower itself as to size, form and finish but upon its earliness also.

LAREDO is a variety which was not mentioned in my notes last week, but it is certainly a most promising variety, being a strong, robust grower, and the few partly developed flowers promise to be very full and of very fine color, something similar to Mrs. E. G. Hill in color. This is flowering earlier than I had expected it to do. It is really more forward with me than Harry Balsley, which created such a favorable impression at many of the shows last fall. We cannot tell at this stage of what form the flowers of Laredo will be, but it has certainly several very good points in its favor.

MRS. BULLOCK is not fit to cut yet, but it looks very fine, and for an old variety is certainly among the best as a second early white.

E. L.

The Chrysanthemum Committee.

The committee to inspect new seedling and sport chrysanthemums are requested to meet at their respective places November 17 and 24, to view such late varieties as may be presented. It is very likely another of these inspections will begin about October 15, continuing every Saturday throughout the season. Such an arrangement would give all an opportunity to show their blooms when in best condition. President-elect Lonsdale has offered a suggestion which I heartily endorse, which is this:

"Respecting what you say regarding two other dates for inspecting seedlings, I believe it to be an excellent idea, and would go further, and say that when a person has a good seedling and he can produce the required number of blooms that if he can get the committee together to examine these seedlings by corresponding with the chairman I believe the Chrysanthemum Society ought to not only endorse the committee's action, but to advocate it."

Through the advice of our expert judges I hope to be able to submit to the executive committee a system of judging seedlings by points, so that when a seedling is shown at Boston, Philadelphia and Chicago an average can be made of the points awarded at the three places, and if this average is sufficiently large the variety will be entitled to the society's certificate, and those having only six blooms to show before one committee would be entitled to certificate, provided the points awarded were sufficient. In such an event a seedling scaling 85 points

shown before one committee would receive the same recognition as one receiving the same number of points before three committees, that is as far as the awarding certificates is concerned, although the commendation of nine competent judges would greatly add to its value. In this way the decision of two or more committees would be resolved into a committee as a whole, and thus do away with conflicting opinions, which are sure to occur under the present arrangement. As it now stands November 10, 17 and 24 are the dates for these inspections for this season. Any suggestions on this subject (either through the trade papers or personally) will be thankfully received.

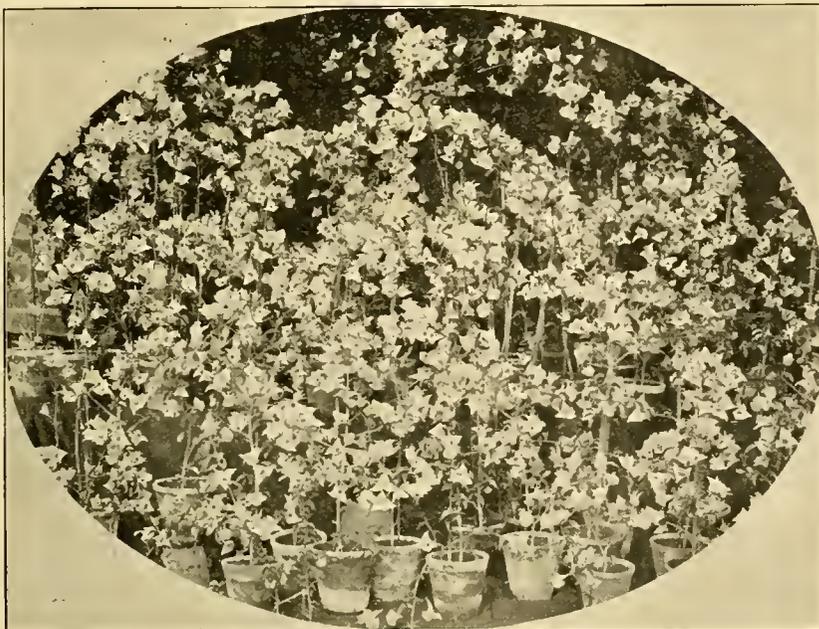
ELMER D. SMITH, Sec'y.

Coming Exhibitions.

- CHICAGO, Nov. 3-11. Chrysanthemum show Hort. Society of Chicago. W. C. Egan, Sec'y, 620 Dearborn Ave.
- BALTIMORE, Nov. 5-10. Chrysanthemum show Gardeners' Club of Baltimore. Wm. Feast, Sec'y, 228 N. Charles St.
- MILLBROOK, N. Y., Nov. 6-7. Chrysanthemum show Millbrook Hort. Society. L. Keunedy, Sec'y.
- NEWPORT, R. I., Nov. 6-8. Chrysanthemum show Newport Hort. Society. Alex. MacLellan, Sec'y, Ruggles Ave.
- BOSTON, Nov. 6-9. Chrysanthemum show Mass. Hort. Society. Robt. Manning, Sec'y, Horticultural Hall.
- PITTSFIELD, MASS., Nov. 6-9. Chrysanthemum show Berkshire County Gardeners' and Florists' Club. W. M. Edwards, Sec'y, 103 Howard St., Pittsfield.
- ST. LOUIS, MO., Nov. 6-9. Chrysanthemum show St. Louis Florists' Club. E. Schray, Sec'y, 401 Pennsylvania Ave.
- INDIANAPOLIS, IND., Nov. 6-10. Chrysanthemum show Society of Indiana Florists. W. G. Bertermann, Sec'y, 37 Massachusetts Ave.
- PHILADELPHIA, PA., Nov. 6-10. Chrysanthemum show Pennsylvania Hort. Society. D. D. L. Farson, Sec'y, Horticultural Hall, Broad St.
- LOUISVILLE, KY., Nov. 6-10. Chrysanthemum show Kentucky Florists' Society. H. Nanz, Sec'y, 582 Fourth Ave.
- NASHVILLE, TENN., Nov. 6-10. Chrysanthemum show Nashville Floral Society. R. B. Currey, Sec'y.
- HAMILTON, ONT., Nov. 7-8. Chrysanthemum show Hamilton Agric. Society. Walter H. Bruce, Sec'y.
- NEW HAVEN, CONN., Nov. 7-9. Chrysanthemum show New Haven Chrysanthemum Club. Mrs. E. P. Morris, Sec'y, College St.
- FREDERICK CITY, MD., Nov. 7-9. Chrysanthemum show Frederick County Horticultural Society. C. E. Kemp, Sec'y.
- OSHKOSH, WIS., Nov. 7-9. Chrysanthemum show Oshkosh Floral Club. Mrs. G. M. Steele, Sec'y.
- DENVER, COLO., Nov. 7-10. Chrysanthemum show Denver Florists' Club. Adam Kohankie, Sec'y, L. B. 375, So. Denver, Colo.
- PROVIDENCE, R. I., Nov. 8-10. Chrysanthemum show Rhode Island Hort. Society. C. W. Smith, Sec'y, 61 Westminster St.
- NEW BEDFORD, MASS., Nov. 12-14. Chrysanthemum show New Bedford Gardeners' and Florists' Club. Fred Puckering, Sec'y.
- MONTREAL, NOV. 13-15. Chrysanthemum show Montreal Gardeners' and Florists' Club. Fred Bennett, Sec'y, 62 Aylmer St.
- WORCESTER, MASS., Nov. 13-15. Chrysanthemum show Worcester County Hort. Society. Edw. W. Lincoln, Sec'y.
- SPRINGFIELD, MASS., Nov. 13-15. Chrysanthemum show Hampden County Hort. Society. W. F. Gale, Sec'y, 331 Main St.
- MILWAUKEE, WIS., Nov. 13-16. Chrysanthemum show Milwaukee Florists' Club. A. Klokner, Sec'y, 219 Grand Ave.
- WICHITA, KANS., Nov. 13-16. Chrysanthemum show Wichita Florists' Club. W. H. Culp, Sec'y.
- MOBILE, ALA., Nov. 15-17. Chrysanthemum show Mobile Chrysanthemum Club. Miss Mollie Irwin, Sec'y.
- TORONTO, ONT., Nov. 20-23. Chrysanthemum show Toronto Gardeners' and Florists' Ass'n. A. H. Ewing, Sec'y, 85 Carlton St.

Chrysanthemum "Philadelphia."

The new chrysanthemum bearing the above name is an entirely new type, in coloring and in form of petal or floret, and in the general contour of the flower, though it is very nearly globular as a whole. The formation of its florets and their disposition makes it graciously globular in form—if such a term may be permissible, this variety is certainly entitled to it.



BOUGAINVILLEA GLABRA SANDERIANA.

Nothing that I can say can do justice to so pronounced a novelty. It is the greatest step onward that we have had among chrysanthemums for many a day. In color it is white, illuminated with a charming shade of lemon yellow, giving it light and life never before noticed in any flower.

There is no variety that I know of which has a petal anything like it. The petals are similar in formation to a canoe with the prow incurving, similar to a parrot's bill. They droop gracefully, then again take an upward tendency, turning sometimes this way and sometimes that, giving the flower a very easy and quite unique appearance. As seen by the committee who had been invited by Mr. Graham to examine it growing at his greenhouses, it was pronounced with one accord to be the best novelty in sight. It is to be hoped that enough flowers may be secured so as they may be sent to all the exhibitions in the country, and thereby giving more people an opportunity to see it. It ought to ship well, as it appears to have all the qualities of a good shipper.

The committee recommended the award of the highest honors in the gift of the Chrysanthemum Society of America.

E. L.

Chrysanthemum Show Judges.

We print below the names of the judges at the various shows so far as reported.

CHICAGO: Wm. Scott, Buffalo; Grove P. Rawson, Elmira, N. Y.; A. W. Bennett, Pittsburg.

TORONTO: C. Swift, Rochester, N. Y. (on plants); R. Flowerday, Detroit, Mich. (on cut blooms, designs, etc.).

HAMILTON, ONT: Geo. Vair, Toronto; Wm. Gammage, London, Ont.

MILWAUKEE, WIS: C. B. Whitnall, J. A. Pettigrew and C. L. Mann, all of Milwaukee.

INDIANAPOLIS, IND.: E. G. Gillett.

CINCINNATI: John Hartje, Indianapolis; W. W. Coles, Kokomo, Ind.

PROVIDENCE, R. I.: E. W. Wood, West Newton, Mass.; A. H. Fewkes, Newton

Highlands, Mass.; M. A. Cheesman, Providence.

FREDERICK, MD.: C. F. Hale, Washington.

NEWPORT, R. I.: Richard Gardner, James McLeish, John D. Kearns (on plants and flowers); Misses Anna F. Hunter, Mary Powell and Waring (on floral arrangement), Mrs. Rob't Paterson, Ludlow Mahan and Joseph Gibson (on fruit); James Gohm, Wm. Hazard and Chas. D. Stark (on vegetables).

PITTSFIELD, MASS.: W. J. Stewart, Boston; W. A. Manda, South Orange, N. J.

Correction of Names.

In our report in last week's issue of the work of the National Chrysanthemum Society's committee at Philadelphia, the names of Mr. Hugh Graham's seedlings were given as Daybreak and Princeton. This was an error. The correct name of the pink one is Mrs. Theo. W. Wiederseim, and of the orange colored one Mrs. Wm. H. Hurley.

TRIM in summer to check luxuriance and in winter to increase it.

W. R. SMITH.

NEXT WEEK we shall publish a special chrysanthemum number, of extra size, with engraved title page and very handsomely illustrated. It will contain reports of the principal chrysanthemum shows of the same week and much other matter of special interest at this time.

Bougainvillea glabra var. Sanderiana.

During the past season this beautiful new bougainvillea has secured honors in England and on the continent wherever exhibited. First-class certificates have been obtained in London, Paris, Berlin, Manchester and York.

It has continued flowering over half a year here, both small and large plants alike being covered with blossoms, and plants in 3-inch pots were profusely covered with bloom from early spring to November.

Whether grown in a stovehouse or conservatory, it produces its bright red flowers (bracts) as freely as a fuchsia, which last a long time in perfection. It is of easy cultivation and not subject to insect pests of any kind. Many excellent judges are of opinion that this beautiful shrub is destined to become a favorite market plant.

A. DIMMOCK.

Winter Flowers.

November is not very suggestive of flowers in our part of the world, and it has no better character in other similar latitudes, for somebody (Hood I think) has written of it:

"No sky—no view—
No distance looking blue—
No warmth, no cheerful healthful ease;
No comfortable feeling in any member;
No shade—no shine—no butterflies—no bees—
No fruits—no flowers—no leaves—no buds in November."

But the poet could never have been acquainted with American florist stores, nor with chrysanthemums. They are the great universal redeeming quantity for the month, and society had best pause before discarding them. There is no month in the year when they could less be spared. I have known what it meant to keep a stove and conservatory gay without them, and I have a distinct recollection that quite a list of plants needed to be grown, and very carefully managed. Scarlet geraniums and salvias were the great standbys then, with gesneras, begonias and poinsettia in the stove. I have written of a method of working the poinsettias in the *Country Gentleman* and other papers years ago, but last season was about the first time that I knew of small pot plants being in the market. It is strange how some old methods are shelved. A good batch of cuttings should be struck early, potted, and after being well hardened planted in the open rich ground about the 1st of June. Then after good growth, but not later than the 1st of September, take off six inches of the top, trim to two or three leaves and insert single in drained 4-inch pots. They will be rooted by October, and will come in with heads but little smaller than old pot plants. Both the red and white are exceedingly useful for many purposes. Be careful not to shade too heavily when striking, and don't syringe too much or you will rot the cuttings. Several other things can be dwarfed in the same way.

In looking over a list of flowering plants for this month there is a comparative paucity of numbers, and very few indeed that would be likely to prove bread-and-butter plants; quite a number are pretty, even beautiful, but the florist needs above all things something that is easy to handle. I find an Araliaceous plant from the Mauritius, *Gastonia palmata*, which might be of considerable decorative use. It grows in the way of the fatsias, and when about 18 inches high produces very singular cream-colored flowers on the bare stems, and below the crown of bright green palmate leaves.

Hillia longiflora and four or five others from Central America and the West Indies are Rubiaceae shrubs which are mostly winter flowering and quite handsome.

There are several crinum, pancratium and hippeastrum which flower during November, and these sometimes find their way into windows. Epiphyllums again in the salmon-colored varieties would strike some people as novel.

Orchids are mostly out of the question as plants to be grown in windows. Some few wealthy customers might possibly

pay for baskets of small ferns containing flowering bulbs of calanthes, or small plants of cyripediums, etc. Calanthe Veitchii may have all the soil shaken from it; the pseudo-bulb will carry the flower over the season. In this way a superb basket may be made up with small ferns, etc. *Cælogyne ocellata* is a good free flower for this month, but it is often objected to because the dark colors in the flower, showing through its texture, have an appearance of decay. *Cyripedium Harrisianum* is often in flower, and it is still one of the best. *C. insigne Maulei* and several other of its varieties give more color than the type. *Spicerianum* also comes in now, but its hybrid *Leeanum* is often freer in growth than the parent. It commonly flowers later, however. *Dendrobium bigibbum* and *D. Phalanopsis* will be coming into flower, and they are among the most durable of all orchids. The "Indian crocus" (*Pleiones maculata* and *Wallichii*) do well, especially the former, but are often neglected and lost when at rest. *Vanda cœrulea* is perhaps the most beautiful orchid of the season, at any rate among the durable eastern ones.

Among those of the western hemisphere *Cattleya Bowringiana* is in splendid shape during November, and the little primrose *C. luteola* is sure to flower; so also is *C. marginata*, but it is apt soon to lose its vigor. The *C. labiata* is represented during November by the re-introduced type, and also sometimes by *El Dorado*. *C. Percivaliana* also begins to come in. Early varieties of *Lælia anceps* will also be in order, and also new importations of *L. autumnalis*. *Lælia Dayana* is also a free flowerer at this time, but it can not compare with the better varieties of *Cattleya marginata* for coloring. *Oncidium incurvum*, *O. Lanceanum*, *O. flexuosum* and *O. ornithohyncum* are all good things for flowering, cutting and home propagation. *O. varicosum* is fine also for November, but it will need to be more frequently imported. When the South American Indians take to farming orchids like Dutchmen do tulips it will make several of these things much more simple! *Zygopetalum Mackayii* is reckoned a stiff flower by some, but it is a good reliable old orchid for this season, easy to grow and to propagate.

Trenton, N. J. JAMES MACPHERSON.



TO PREVENT RUST.—Dissolve one pound of sulphate of copper in two quarts of ammonia in a 2-gallon jar. When dissolved add another quart of ammonia and stir well. [The liquid can be kept in this form for some time and used as needed.] Add a pint of this solution to a barrel of water and syringe the plants with a force-pump every two weeks. And don't let the time for spraying pass without attending to the operation.

Carnation Notes.

It is very evident from the criticism of my article on page 263 of the FLORIST by Mr. Scott that he has either never tried handling carnations as I do or that having done so has failed in the attempt. He is not justified in saying emphatically that I am in the wrong simply because he can not on his soil grow a plant larger by August 25 than can be grown in a 4-inch pot. Every florist must have noticed the great changes that have been

made in the past fifteen years in the growing of roses and "mums," and I came to the conclusion three years ago that the carnation could by a higher and different treatment be vastly improved. The change I made, which has been outlined previously, has proved very successful, especially when I state that from November 14 to April 27 of last season my McGowans brought in the New York market (which at all times was full of the same variety) \$3 per 100. Mr. S. says that Daybreak and Wm. Scott can not be grown as I advise. How can he make such a statement when he has never visited my houses, and I question if he has ever seen any of my stock. Several of my neighbors are now adopting my methods and with excellent results. Mr. S. evidently thinks this is all guesswork on my part, but my statements in these columns are based on results obtained through actual practical experience and not upon theory.

It is very true that one having a heavy soil can lift his plants with a ball and thus mature most of the buds which have started; this is impossible in this locality, owing to our soil being a sandy loam, but not clear sand, but I would not advise lifting with a ball as the soil brought in from the field is, as a rule, entirely different in character from that which has been prepared for the bench and I do not believe that plants ever do as well as where all soil is removed from the roots before planting inside. I have made very thorough tests in this matter and the method now in use here has proved the best. If a plant is lifted the latter part of August the growth is firm and much less subject to check than if it is allowed to make the rapid succulent growth which under ordinary conditions it is sure to make in September. To be sure by leaving the plant out three or four weeks longer you get a very much larger plant, but I prefer this growth to be made inside, as then I get a very much finer flower with a decidedly longer stem. Albertini did not do as well last winter in this section as we had hoped; while many growers produced some very fine bloom the quantity was below a paying stock. This season this sort is looking much better owing to a decided change in treatment. We are growing it warmer, giving it more water and it was not pinched after July 15 excepting an occasional shoot. The Stuart is doing as well as Albertini in its general growth, but the buds have a tendency to blight and run streaked with white; this feature is bad. Uncle John is sporting badly, many of the plants showing only semi-double flowers and a decided change in the foliage. This can not be due to mixture, as I have no other stock like the sports, and I know the original stock was true to name; it is merely that some sorts will not do well in every locality.

CHARLES H. ALLEN.

Some New Carnations.

We have received from Mr. H. E. Chitty, Paterson, N. J., blooms of 5 new carnations of his raising. All are meritorious, and two in particular are likely to prove of special value.

First comes Alaska, a white, parentage Lizzie McGowan × Puritan. The flowers are moderately large, pure in color, long-stemmed and very heavily built. The fact that they arrived in perfect condition after their twenty-four hours' trip, without any suggestion of sleepiness, argues well for their shipping qualities. Mr. Chitty says that this variety is exceed-

ingly prolific, and the plant forms a neat self-sustaining bush. The foliage is very silvery in tint. We feel safe in saying this will prove a valuable trade sort.

Corsair, a scarlet, is another McGowan seedling, taking very strongly after its parent; in fact it is described as a scarlet McGowan, similar in shape, habit, and freedom of bloom. Judging from memory the color hardly appeared quite as bright as The Stuart, but it is large and solid, and appears to travel well.

Two variegated sorts were included, Minnie Cook and Little Gem. The first named is white, striped and flaked with cerise; it is a large and solid flower, with fine long stems. Mr. Chitty considers its growth shows traces of Hinze's White, Little Gem resembles J. J. Harrison in color and marking, but is extremely dwarf, its maximum height being but eight or ten inches. It will be an admirable pot plant, and should be fine for bedding, though we rarely find carnations used in this way here.

Last comes Magnet, which we are inclined to call the gem of the collection. The color is a superb magenta rose, very close to that of a freshly cut American Beauty. The flower has the strong succulent stem, firm build and large size of Tidal Wave. It is a beauty, dazzling by artificial light; the color is just that tint seen so much in the fashionable millinery this autumn. It travelled perfectly; it seems to possess every requisite for a fine commercial flower. Altogether these five varieties make a very promising group.



American Beauty.

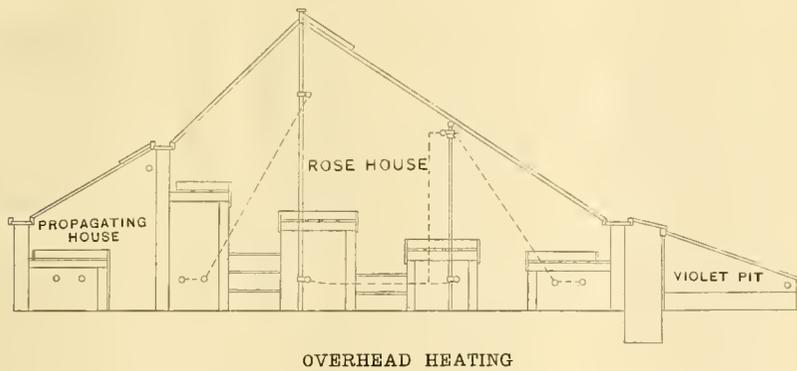
Some daily paper writer has resurrected the story about the American Beauty rose being a chance seedling in the garden of Historian Bancroft. It is, we believe, now generally acknowledged that American Beauty is synonymous with Mme. Ferdinand Jamain. But the name American Beauty has become so thoroughly established in this country that it is practically impossible to secure the use of the correct name. And as it is but little grown under its original name this may make little difference provided the facts are stated in reference lists. In the reference list of roses in the American Florist Co.'s directory and reference book the rose is given under its correct name, and American Beauty is entered as a synonym.

Though this has proved to be a case of renaming Mr. Field was certainly not to blame in the matter. At the time he discovered its merits it was supposed to be an unnamed seedling and in the absence of a name he was justified in giving it one. It was only when the rose was sent back to Europe under its new name that its identity became known.

The variety does not do nearly as well in Europe as it does here and is consequently little grown there, though in America it is one of our most important forcing varieties.

Overhead Heating.

As at this time many florists will be building new houses, remodelling old ones



or making some changes which necessitate additions to, or changes in their heating arrangement, a description of a heating system which has proved very satisfactory last winter may not be out of place. The system has been used by Evenden Bros. of Williamsport, Pa., in three houses built by them last summer, and so pleased are they with it that they intend changing the piping in some of their other houses to the same plan.

The houses are two three-quarter span rose houses, and one even span carnation house, each 110 feet long and 18 feet wide. Steam is used for heating. In each of the three-quarter span houses 9 1 1/4-inch pipes are used, 3 overhead as flows and 6 under the benches as returns, while in the even span house two flows overhead and 4 returns have been found sufficient, in each house one flow feeds two returns.

The flows are taken off a 3-inch main, which runs along the ends of the houses outside, and each has a valve as close to where it enters the house as can be conveniently reached; there is also a valve on the drip pipe of each set of returns, and besides one pipe in each set of returns is fitted with valves so that any number of pipes from 2 to 9 can be used as wanted.

The advantages of having 3 small flows overhead instead of one large one (which is generally used) is that in mild weather, when only a little heat is needed the overhead heat will not be out of proportion to that underneath, and besides a small pipe requires less steam to fill it. Again in cold weather, when all the pipes are used, the heat is more evenly distributed, and from the position of the flows none of it is wasted, as is the case when one large flow is used, as that is usually placed as close to the ridge as possible, and sometimes wrapped.

Many florists condemn overhead pipes as they say they cause red spider; this I have found to be nonsense, as in these houses no extra care was taken in syringing and the plants were perfectly clear of the pest till thrown out.

For experiment last winter I hung a thermometer horizontally 4 inches under one of the flow pipes, and it registered only the same as the one ordinarily used, which was hung from a back sash bar.

Another point (and one not to be lost sight of) in favor of the overhead pipes in rose houses is that they help materially to dry up the superabundant moisture which accumulates at night, especially after cold, cloudy days, when sufficient air cannot be given to dry it off. On that account this system would be specially beneficial to growers of Beauties, La France, Testout, or other kinds subject to black spot, which we know to be caused by excessive moisture in the atmosphere of the house.

The cut shows the position of the pipes

in the rose houses, and in the carnation house the flows are run through bangers on the purlin supports, and the returns under the side benches. J. P. RING.
Williamsport, Pa.

THE RETAIL TRADE.

Now a Department.

While we have in the past devoted considerable space to the retail end of the business we have decided to in future give more room to it and make it a regular department, so that all matters of more direct interest to the retailer may be readily found under a department head.

We invite an exchange of experiences and suggestions by the retailers in this department, and will be pleased to answer herein any questions that may be asked.

Window Displays.

This is the chrysanthemum season, and whether we take a special interest in the "mum" or not so long as we are in the retail business we have to cater to the wants and tastes of our customers; so for at least three or four weeks to come the roses and carnations will occupy but a minor position in trade. Now let us make the most of our opportunity and put our goods before the flower buying public in the most attractive way.

The first and most important feature is undoubtedly an attractive window display. Much has been said on this subject, in fact this matter has been so well discussed at various times that it would appear dry straw to be threshed over again. Still in our mind there is yet many a flower window in our cities that could be vastly improved in this respect, although it is a matter of congratulation that big strides have been made in the right direction.

For a fine window display, one to attract attention and draw an admiring crowd, no flower, except perhaps the orchid, equals the chrysanthemum. In these days, when good stock is so plentiful and moderate in price, nothing but the very best should find place in our window. The day when anything was considered good enough to fill the show window is past, in fact using second rate stock in the window is one of the very worst mistakes the florist can make. Many a dealer will argue that a window display of choice bloom is an expensive way of advertising. Perhaps it is, unless you look carefully after your display, and even if part of your stock is ruined in this way, we still hold that this is the cheapest and most remunerative way to advertise, in fact we are of the opinion that the best paying advertisement is that

which puts your goods right before the people's eyes, in your window first, on your counter next, and last but not least at an exhibition.

Speaking about losses through window displays, there is really not much of it if proper care is exercised, at least in chrysanthemums. As we all know a chrysanthemum bloom, if received in good condition, will last for a number of days. Blooms that are received from the market in the morning, no matter how fresh they may appear, are not fit to be put into the window at once, if the flowers are expected to last the day without flagging. At least this holds good with many varieties, especially most of the loose petaled sorts. If the stems are cut and then placed in water for a few hours and kept in the refrigerator, or still better in a cool cellar, and then set up for display, they will last twice as long. Still by the best of care some of the flowers will flag more or less before the day is over. These flowers need not be lost by any means; if you take them out and put back in a cool storage place as before mentioned they will stiffen up again and become again in good saleable condition.

If you make a window display of "mums" don't add any other kind of flower, as these detract rather than add to a good appearance. A background of palms and a few ferns or other decorative plants of proper height placed between the vases is good. Above all we must be careful in harmonizing colors if the display is expected to give the desired effect. If you trim up your window with pink it would be suicidal to mix such opposing pinks as Vivid and Morel, Harry Balsley or W. N. Rudd. Any one of these is grand by itself or in company with white, but keep them wide apart. In yellow the difficulty is not as great, still the effect is better if but one shade or variety is used for solid color display.

Answers to Questions.

ED. AM. FLORIST:—I have an order for a decoration for a chrysanthemum tea in white and yellow November 8, the room and table to be decorated. Will you please give me an idea as to the most effective decoration to be made with the material mentioned.

I also have an order for a bicycle to be made of dried flowers for an exhibition. Please tell me how to make it.

M. F. C.

As regards the first query you should have no difficulty in arranging an effective and appropriate decoration at the date mentioned. There will be any amount of material to choose from. Of course you will have to base your calculations on the price you are paid for such a decoration; as you do not mention the cost we will suppose it to be say \$25.

Take the table first. The centerpiece of flowers must correspond with its size and shape. If oblong the design should be also oblong with either rounded or square corners. If the table is a fairly long one, say one that will seat over a dozen people, it is best to have a centerpiece of fair size, and two smaller pieces, one on either side. For a round table the design may be circular, star shaped or any other form to correspond with outlines of the table. Let us say you have a table 10 feet in diameter; this will seat from 12 to 14 persons comfortably, the simplest and most effective centerpiece can be arranged on a circular plateau. The floral arrangements for a tea table are practically the same as that for a dinner. As the party

is seated at table the same rule as regards the height to which flowers should be raised must be laid down, which governs the arrangement for a dinner table; that is the flowers should not obstruct the vision across the table. Now in a chrysanthemum decoration you will have to sacrifice your long stems if you use specimen blooms, if the arrangement be kept below the vision. Care should be taken in the selection of varieties; the heavy and compact forms are apt to give a stiff appearance, the lighter loose petaled forms being much the best. In this line the old *Gloriosum* for yellow is one of the most effective. For green *Adiantum princeps* is good; autumn foliage might also be effectively employed, particularly the russet tinted oak branches. Your flowers for the center being yellow place one selected bloom of white in front of each cover. For circular table 10 feet in diameter the centerpiece should never exceed 4 feet; for 9 foot table 3 feet, and for 8 foot 2 feet. We use long stemmed blooms by carrying them above the level of vision; these should be placed in a tall slender vase, around the bottom of which short stemmed flowers might be placed.

The room decoration for a tea should be simple; an elaborate mantel bank is too ostentatious for the purpose. Fill a couple of vases loosely with "mums" of either color, and place on the mantel shelf. If no fire is used in the grate fill it with a few potted plants. A few blooms on the sideboard and odd corners will complete the decoration.

As to the second inquiry how to make a bicycle of dried flowers for an exhibition, you will pardon us by first giving our opinion on the appropriateness of showing such a design on such an occasion, and that is: Don't attempt it. If our customers insist upon ordering a design of this kind well and good; we will execute the order to the best of our ability, but we should not encourage this style of work which even in the hands of a most experienced worker is but an indifferent imitation of the real article. Still if you insist on it, the first and one of the most important things is to procure your wire design in proper proportion. If your wire designer has had no experience in this line you had better send your order to one located in some of our large cities. Unless your wire design is proportioned right you are bound to make a botch of it. As to arrangement it is next to impossible to describe the *modus operandi*. In a general way we will say that the tire of the wheel and the seat should be mossed, also the handles. The best material to use is probably cape flowers stemmed on half tooth picks, say white for the wheel, red for the seat and some other harmonizing shade for the handles. For the spokes *immortelles* are best. Make strings of these the length of the spokes and tie on. If you have a good mechanical head you may succeed in turning out a creditable imitation; as to the "artist" he simply isn't in it.



Cypripedium Youngianum.

This handsome plant is again flowering with us, and equals the stately *Morgania* in size and form of flower. It is a cross

between *C. Phillipinense* and *C. superbium* and was raised by Mr. Cookson. The plant when once established is a free and vigorous grower, with large broad leaves delicately tessellated. The flower scape is about sixteen inches long, carrying four large flowers, petals five inches long by three-quarters of an inch broad, drooping and densely spotted over the whole surface.

It has no regular season of flowering, but generally late spring or early fall. It is available as a decorative plant or for cut flowers, lasting long in perfection. Our plant flowered in May last and is now (October) in grand condition. We grow it on the north side of our cattleya house in a warm corner on side bench near the glass, with plenty of light but shaded from direct rays of sun. We grow the plant in a pot and use the same material used for other *Cypripedes*, giving the plant plenty of drainage. This hybrid was subsequently raised by Messrs. Veitch and named by them for Mr. Corning, but it will retain the former name, *Cypripedium hybridum Youngianum*.

W. ROBINSON.

North Easton, Mass.

Miscellaneous Seasonable Hints.

As soon as your benches of the early chrysanthemums are cut it will afford a chance to spread out many batches of stuff that have been kept crowded for want of room. Cyclamens are just beginning to flower; they don't like a damp house or too cool a one. A night temperature of 50° suits them; give them plenty of room and every week a light fumigating. *Cinerarias* and *calceolarias* will thrive in a much lower temperature. Their chief enemy is greenfly and a too heavy dose of tobacco smoke often injures the leaves. In a commercial place where appearance is not studied some tobacco stems laid between the pots will help very much to keep down the fly, but it should be renewed every time the plants are spaced, as it is useless after being on the benches a few weeks.

If you grow that common plant, *Stevia serratifolia*, endeavor to keep it as cool as possible. Common as it is it is very useful at Christmas, and adds grace and lightness to many a box of flowers. Keep it in the coolest house you have and it will be in good shape for the holidays. Another useful plant for Christmas is what we grow here under the name of *Begonia incarnata grandiflora*. Give them room and light, and not too warm; about 50° at night will do. If too warm they grow soft and light in color, and keep poorly when cut. This *begonia* always comes in for Christmas, and when well grown is a most useful flower.

If you grew a batch of *Linum trigynum* as I recommended last spring they will now be fine plants in 5 or 6-inch pots. I lifted them from the open ground and they will not lose a leaf. They will sell well at Christmas when covered with their pretty yellow flowers. The only enemy that will trouble them is red spider, and for that they are very bad. They must be syringed daily with a good "upper cut."

The poinsettias must begin the warmest house you have, provided it is light. You can't keep the leaves on them unless you have a steady heat of 65° to 70° and if they are in a shady house they will grow to an ungainly height. Another cause of leaf dropping with them is exhaustion at the root, and if kept in pots they should get a dose of liquid manure two or three times a week. If

you grow them for the flowers only they can be planted on the bench in 5 or 6 inches of soil, and if the temperature is right you will get some enormous bracts.

Bring in paper white narcissus for your Christmas trade. To me they are not very profitable except at the holidays. You can't grow paper white narcissus with any success by putting them on the path or partly under the bench. They must have the full light and a cool house, then the flowers will be large and fine.

With the increased room you will have to spread out many batches of small stuff that was propagated earlier this fall; among them the geraniums in 2-inch pots. Don't let them get crowded and lose their bottom leaves. It doesn't cost much to stand over a few thousand small plants, and the benefit to the plant is many times worth what it cost. If you once let a geranium run up to a spindling affair you never can make a sturdy plant such as your customers want for \$1.50 per dozen.

Allow me to remind you that before winter sets in you should have a good supply of potting soil put in some dry place. The great bulk of the potting is done before you can get at the soil pile outside.

A question is referred to me from "Amateur:" "What time to pot calla lilies to have them in flower at Easter, and if they should be rooted before bringing into light and heat." Amateur must be thinking about *Lilium longiflorum*; those questions would be more appropriate for that. The calla or to speak correctly *Richardia ethiopica* is not in its native home essentially a deciduous plant any more than the canna is, but we often treat it as such. In starting them if "Amateur" has purchased dry roots pot them and place in the greenhouse at once; they want no such treatment as do hyacinths, etc. You can't control their time of flowering as you can a *Lilium Harrisii* that sends up its flower spikes but once a year. Callas as the commercial florist grows them flower from September to June. A good strong plant may give you 4 or 5 flowers during the winter and large clumps many more. If callas are grown at all they should have a warm light house. It is a native of Africa as its name implies, and to be profitable should have plenty of light and a night temperature of not less than 60°. I know of no way to insure a crop of flowers at Easter but with the increased sunlight and higher temperature they are unusually most abundant in March and April. Callas were once an important plant with the florist and are still in favor with many people, but *Lilium Harrisii* as an Easter plant has almost relegated it to innocuous desuetude.

WM. SCOTT.

Exhibition at United States Nurseries.

The fall exhibition at Short Hills, N. J. is now on. Everything outside and inside the mammoth establishment is as neat as can be and there is much to interest the professional plantsman as well as the less critical public.

The maple leaves have fallen, the oaks are brown, the chestnut burrs have been long on the ground and golden rod and asters are a thing of the past, yet the nasturtiums, dahlias, gaillardias, coreopsis and *eschscholtzias* still retain their summer brilliancy in this most remarkable season and the hardy pompon chrysanthemums which are scattered in showy clumps though the herbaceous beds and borders are by no means desolate looking for they have plenty of brilliant company.

The chrysanthemum houses are natur-

ally a leading attraction. Too much praise cannot be given for the artistic arrangement of the chrysanthemum plants in the show house. From the ten foot standards down to the most diminutive specimens the grouping has been admirably done and colors well placed. Among the most noticeable varieties are Pitcher & Manda, which appears with better foliage and heavier stem than last year. Mayflower, a grand white; Mrs. Geo. M. Pullman, rich yellow; Mrs. John H. Starin, an enormous swirled white; Georgienne Bramhall, a fine large incurved lemon; Mrs. C. Lanier, incurved deepest golden yellow, a perfect globe; Georgiana Pitcher, an improved Widener; Dorothy Toller, pink; Mrs. Geo. B. Crane, magenta, and such favorite sorts as Harry Sunderbruch, The Queen, Mutual Friend and Hicks Arnold.

The orchids are in very fine form. *Cattleya labiata*, *Percivaliana* and *Dowiana*, *Cypripediums insigne*, *Pitcherianum*, *Spicerianum*, etc., *Odontoglossums grande* and *crispum*, *ocnidiums*, *zygopetalums* and *vandas* are all blooming in greatest profusion and *Cattleyas Trianae* and *Schroderae* and *laelias* give promise of an extraordinary display later on.

The fern, palm and stove houses are in their usual trim condition and many rare and curious novelties may be admired by the interested visitor. Three houses of *Adiantum Farleyense*, a house of flowering *anthuriums* and a large collection of new *dracenas* are among the best features. The number of visitors has been quite large.

A "Night Watchman."

The accompanying engraving is from a photograph of what Mr. Albert G. Rott, of Bloomington, Ind., calls his "night watchman." Mr. Rott writes:

"I consider this little instrument indispensable to any one with a small plant where it does not pay to keep a night watchman. The device consists of a thermostat placed so that as the temperature rises or falls it will expand or contract until it comes in contact with one or the other of the set screws in the posts on either side, which will close the circuit and ring the alarm bell, which may be placed in your bed room. The materials for making this simple device may be had from any dealer in electrical supplies at about \$3 and any one of ordinary intelligence can put it together."

Boston.

Tuesday and Wednesday were visiting days among the chrysanthemum growers. Under the escort of the garden committee of the Massachusetts Horticultural Society a trip was made on Tuesday to Waban Rose Conservatories at Natick and on Wednesday to the establishments of N. T. Kidder at Milton and C. V. Whitten at Dorchester. To describe or even enumerate all the chrysanthemums that were seen at these three places is out of the question, but there are some points in the experiences of the expert growers in charge of each well worthy of recording for the benefit of others. It is no exaggeration to say that at Waban Conservatories was seen a show which taken altogether could not be found elsewhere in this country. A noticeable feature here was the earliness of many of the leading sorts as compared with New York or Philadelphia. It was something of a surprise to find such varieties as Major Bonnaffon, Lincoln, Widener, Robert McInnis, Mrs. Jerome Jones and Mrs. J. Geo.

Its in fullest bloom on October 30. Eugene Dailedouze as seen here is a wonder, and to quote Mr. Montgomery "knocks Golden Wedding higher than a kite." Mr. Montgomery is delighted with Inter-Ocean. The flowers on opening presented a more or less striped appearance, and made an unfavorable impression, but the color is now a nice soft pink all over and it is a gem every way. A peculiar fact regarding Mrs. Jerome Jones is that one lot of this variety in a cold house is fully a week earlier than a lot which has been kept in a warm rose house, this circumstance seeming to verify the theory that early ripening rather than forcing in heat is the most effectual method for bringing chrysanthemums in early. Harry Sunderbruch has been ready to cut since



A "NIGHT WATCHMAN."

October 5. Mr. Montgomery says of it: "E. G. Hill ought to be proud of that variety, I am." Major Bonnaffon is a perfect picture and Mrs. Its is grand with an enormous high built flower and foliage like oak leaves. M. B. Spaulding is another that will be likely to supersede Golden Wedding, which is in rather unpromising condition. As to Challenge, all the center buds are gone, having rotted off, although the plants have never had a drop of liquid manure, to the use of which some growers have ascribed this peculiarity of Challenge. Colonel Wm. B. Smith, Queen, Niveus, Wana-maker and Mermaid are also among the varieties which show up finely and will furnish some of the prize winners at the show next week. After inspecting the houses the company rode to Bailey's Hotel, where they were lavishly entertained as the guests of Mr. E. M. Wood, and much interesting and instructive chrysanthemum lore abounded in the after dinner speeches.

At Mr. N. T. Kidder's which is a private place, the principal attraction was the specimen plants, which Wm. Martin, the gardener, has been carefully nursing all summer. Twenty-seven of these plants fill one large house, each specimen measuring from four to six feet across. As this collection will be heard from at the exhibition next week further allusion to it at present time is unnecessary. A rousing dinner at Mr. Martin's was an important and highly appreciated part of the program.

At Mr. C. V. Whitten's the visitors were welcomed by that gentleman and Lawrence Cotter, his gardener and right hand man. Such varieties as Mrs. E. G. Hill and other early sorts are already cleared off and longiflorum lilies in pots

have taken their place. Several benches, each one hundred feet long, of Ivory are so loaded with bloom as to give the impression of a huge snow bank. Mrs. Craige Lippincott is highly esteemed by Mr. Cotter, he claiming it to hold the position in yellows which Ivory does in whites. He has been cutting Viviani-Morel for two weeks. The blooms are superb. A promising white sport has appeared on one of the plants of this variety. Dailedouze is in splendid form, but Challenge as elsewhere has lost its buds. Rust and sucking bugs have been making havoc with Golden Wedding, Harry May, Pitcher and Manda and Miss Bessie Cummings, and Mr. Cotter says convincingly that if we don't soon get something to stop the rust chrysanthemums will be dear in a year or two. He grows the old Mrs. Humphreys as a white to come in after Ivory, and Pelican he grows in quantity as the very latest white. Cullingfordii always comes in right for the Harvard foot ball game, which takes place just before Thanksgiving. Mr. Cotter pronounced Viviani-Morel the best selling variety this season up to date. After the inspection of the greenhouses the company repaired to the residence of Mr. Whitten, where they were hospitably entertained, and a couple of hours spent in pleasant social intercourse, Mr. J. G. Barker, chairman of the garden committee, presiding, and J. H. Woodford serving satisfactorily as carver.

The regular monthly meeting of the Gardeners' and Florists' Club which was held at Horticultural Hall derived especial interest from the election of officers for 1895, which took place at that time. The vote resulted as follows: President, William H. Elliott; vice-president, Robert Farquhar; treasurer, Edward Hatch; secretary, Frank J. Walsh; executive committee, Thomas Grey, Charles Sander, Warren Ewell and Kenneth Finlayson. The approaching visit of the American Carnation Society to Boston came up for consideration and a committee consisting of the president, L. H. Foster, M. H. Norton, Lawrence Cotter, W. J. Stewart and Samuel Neil was appointed to formulate a plan for the entertainment of the visitors and make report at the December meeting. There was a disposition manifest throughout the evening to have fun at the expense of the president, Welch, who found considerable difficulty in keeping track of the various contradictory motions, formal and informal hallots, with which he was bombarded. The by-laws had to be appealed to frequently, and even Webster's Dictionary had to come into use to settle a knotty problem, but everything was good natured and nobody lost his temper.

Mr. C. M. Atkinson showed a well bloomed plant of *Vanda Sanderiana* at Horticultural Hall last Saturday.

New York.

Conditions have been very unfavorable for the cut flower trade. The effect of the blockade of chrysanthemums and other flowers usual at this season has been accentuated by the prevalence last week of several days of stormy weather. Stormy, but warm; such weather as keeps people indoors, prevents the street men from opening up their stands and yet has but little retarding effect on the crop of bloom in the greenhouses. So the refrigerators have been piled up with flower boxes which it would be useless to unpack, as nobody wanted stock. Chrysanthemums, roses and carnations were all carried over from one day to another,

and even violets were heaped up with the rest.

At present writing the situation is slightly better, but it is not expected that permanent improvement will set in until after the chrysanthemum shows are over at least. Many growers are shifting around from one commission man to another, and this helps to make the unsettled condition of affairs more unsettled. Retail florists in the fashionable residential part of the city complain that a larger number than usual of their regular customers are away. Each year the city season seems to end earlier in the spring and begin later in the fall.

Three or four days of rainy weather last week seems to have affected the color of roses to a considerable extent. Bridesmaids and Cusins got very pale, and that the texture of petals and foliage was soft was evidenced by the scorched edges resulting from the following day of bright sunshine. Watteville is a peculiarly delicate rose in this respect and shows the effects of sudden changes in the weather very quickly. The production of this rose for the New York market has decreased materially from last year. Ernst Asmus is about the only grower left who is running it to any extent, and he is doing it beautifully. Quite a number of Cusins are coming in with pale foliage, suffering apparently from an insufficient supply of the green coloring principle. Large growers who have watched these things say that this trouble generally appears soon after the application of liquid manure, and that all roses are more or less liable to it, but that Cusin seems the most susceptible.

Chrysanthemums are finer every day, as the midseason varieties gradually take the place of the early bloomers. Mrs. J. N. Gerard, which was so abundant at this season last year, seems to have been very generally abandoned. It has a bad habit of dropping its petals, the outside ones letting go before the center is fully developed, but one cannot fail to admire this variety as seen in the grand blooms being brought in from the estate of Wm. Bennett. A yellow which is making a fine record for itself this season is Minerva. E. C. Horan is receiving it in quantity, and every bloom is a specimen.

The entire front of Thos. Young's new establishment on 28th street has been painted pure white. This led one of an admiring sidewalk quartette to suggest that this was intended to be symbolical of the fact that customers would be treated like white men, whereat Johnnie Weir cocked his weather eye to an angle of 90 degrees, pulled his hat down over the other optic, and left to seek solace in the company of patient Tierney, the syndicate teamster.

Ed. Butler, the prosperous, but conservative Broadway florist, has "wheeled" into line with his ambitious competitors, and now sports a fine wagon, formerly the property of the defunct firm of McConnell & Grimshaw, whose effects were sold at auction by the sheriff a few days since.

John Kreshover, formerly in the employ of August Rolker & Sons, has opened a florists' supply establishment at 193 Greenwich street.

In town: Robert Kift and Wm. K. Harris of Philadelphia, each on business bent.

MR. EDWARD SHUTTLEWORTH will in future represent Hugh Low & Co. in America, Mr. Ingram being no longer connected with the firm.

Philadelphia.

Business has improved somewhat the past week and flowers are selling a little faster, but it would seem as if the supply augmented by the immense quantity of chrysanthemums now coming in was more than keeping pace with the demand. There are far more than enough roses, more than enough carnations, and more than enough chrysanthemums coming into town each day than could be used if business was twice the volume that it is. Prices hold up very well considering the competition, and growers generally express themselves as being fairly well satisfied. Beauties are now \$1.50 to \$2 per dozen, large teas \$3 to \$4 per hundred, smaller roses \$2, good count. The quality of the stock is good. Bridesmaid sells slowly, as the color is not right as yet, being too dark. Carnations are very fine for the season, Daybreaks now being as good as they were when at their best last winter; there seems to be a great quantity of this variety about. Wm. Scott has been planted by several of the growers and is very well liked. All the standard varieties are to be had in quantity and the quality in most cases is A1; \$1 to \$1.50 is the price asked for good flowers.

Chrysanthemums are everywhere, on the pavement, in the window, in the ice box, on the floors and piled up on the counter, and still the growers crowd the stores and urge the sale of their stock. The best sellers now are Ivory, Whilldin, Ada Spaulding, Vivian-Morel, Mrs. Bullock and fine specimen blooms of Sunderbruch, Lippincott, Mutual Friend and Niveus. Good prices and quality fit together as a matter of course; from \$3 to \$12 per hundred is asked for the smaller stock, while the specimens sell for \$2 to \$3 per dozen.

There are plenty of good plants in pots, Becker having a very large lot of excellent stock which sells at from \$3.60 to \$12 per dozen. Harris has also a good stock, while Wecke of 6th and Somerset streets has them by the thousand in good shape. House plants have had a little boom and all this class of stock is selling quite freely.

The meeting of the club last Tuesday evening was well attended; the following gentlemen were elected to membership: George Glencil, Chestnut Hill; C. G. Grubb and H. B. Jones of Wilmington, and F. Le Gerse, Wm. Lynch of Phila. In the absence of Mr. John Curwen Jr. on account of the Wayne chrysanthemum show, in which he is very much interested, his paper on landscape gardening was not read, but will be at next meeting.

A question box was opened. "How to get rid of crape pullers" was the first discovered and immediately "Rough on Rats" was suggested. Mr. Baker in answer to a request said he would not sell to these gentry, if those who wanted to be pulled would buy his stock, but as he had flowers consigned to him to sell money held out was a great inducement even if offered by a crape puller, and he very rarely refused it.

"What will be the most popular pink carnation this winter" brought out a number of opinions. Wm. Scott was thought very well of, but it was not to be had as yet in sufficient quantity to make a test. Daybreak, Mr. Battles said, was in good demand with him, and Mr. Cartledge spoke of good old Grace Wilder being called for as much with them as any other pink. Mr. Herr thought Wm. Scott was going to be a leading variety.

"Has the chrysanthemum met its Waterloo?" was discussed quite freely and the general consensus of opinion seemed to be

that the "mums" were all right and still had a future. Messrs. Cartledge, Battles, Graham and Kift said that fine blooms sold very well and a good price could be obtained for them.

On the president's desk were two blooms of a truly magnificent chrysanthemum, a new variety raised and exhibited by Hugh Graham. It is a large globular white with a strong lemon tint, giving the flower in daytime a most beautiful appearance. This variety is entirely distinct from any other flower, in shape it resembles somewhat a very large Ivory, the flower is a perfect sphere, the petals incurving and seeming to be stacked as it were over one another from the center of the flower gradually down to the stem underneath; they are not laid perfectly straight but have a diagonal irregular look which adds greatly to the grace and beauty of the flower. Each petal is white and quite broad with a distinct lemon colored pointed tip and a slight tinge of the same color part way down the outside of the petal. This coloring gives the flower a very distinct and beautiful appearance. Its habit of growth is all that can be desired. Mr. Lonsdale in speaking of chrysanthemums said as he took one of these flowers in his hand, "This is the finest thing in a chrysanthemum I have ever seen." Mr. Graham said that he would send blooms of this variety to all the large exhibitions, so that all growers could form their own opinion of it. He has also sent some blooms to be exhibited at the Royal Aquarium in London at the show there on November 6. Mr. Lonsdale also spoke very well of Minerva, Mutual Friend and Marie Louise and thought they were good commercially.

The annual chrysanthemum dinner will be held on Wednesday, November 7, at the Hotel Metropole, opposite the Academy of Music. All visitors should try to make it convenient to visit the show on that day and stay to dinner. Mr. Farson waxed eloquent when called on to speak of the entries for the show and predicted a really magnificent display, saying it would far surpass all previous exhibitions in many respects.

We learn that the supply of Adiantum Farlyense at Dreer's nurseries is far from being depleted and that they stand ready to take several orders of five hundred and still have a few left. Of other varieties of ferns they have something over a half million in sight. K.

Chicago.

Although the chrysanthemum is much in evidence everywhere, from the display in the window of the swell florists on the avenue to the humble fakir's stand, yet there is no glut of the real silk-edge quality. Of course the poorer grades, by far the most numerous, are decidedly not in it. Fairly well grown stock too is very abundant and this class also, though not as yet very badly overstocked, is moving rather slowly and at prices not very remunerating to the grower. A very fair quality of blooms such as a few years ago were classed as A1 here in the west can be bought at from 6 to 8. In first-class stock Mrs. E. G. Hill still takes the lead. Some good Vivian-Morel have made their appearance, meeting with good demand. Mrs. M. W. Redfield is also received freely and is a fairly good seller. One of the most popular sorts in this line is W. N. Rudd, a pink that is hard to beat. In yellow the market is largely confined as yet to Whilldin and Gloriosum; the few Golden Queen grown around here are pretty well cut, and more is the pity, as

this variety is proving one of the very best market sorts. In whites Ivory is at its best. The Queen is coming in, but not as finely grown as this sort is capable of. Minnie Wanamaker is in and to judge by its appearance is one of the sorts that can hardly be spared as a good market variety. Domination is also good.

The rose market is not as badly overstocked as last week; the wet and cloudy weather which prevailed for part of the week had the effect of considerably shortening up the supply; in consequence prices rule a little more firm. Some large shipments made to northern points helped considerably to ease the market. Speaking of shipping orders it is worthy of note that business in this direction is constantly improving on large orders, though the prices at which stock is shipped out is very low, but then it greatly relieves our home market of an overstock, which is a point the grower must bear in mind when he scrutinizes the figures of certain returns.

The supply in carnations too has been shortened, and although prices have not recovered to the figures quoted three weeks ago still they have improved slightly. Violets are abundant and in quality much improved. Prices of medium grades stationary, the best going as high as \$1.25 per 100.

Quite a number of important changes have taken place in wholesale circles. Corbrey & McKellar have dissolved partnership, Mr. Chas. McKellar retiring and Mr. T. J. Corbrey continuing business at the old stand. The Niles Center Floral Co. has been reorganized. Part of the stock in the company has changed hands, and the business will continue at the present quarters at the Cut Flower Exchange under the management of W. E. Lynch, formerly connected with E. H. Hunt.

Mrs. Rockafellow has given up her stand at the Exchange.

C. Ehrhardt and Schram Bros., both of Park Ridge, will take a stand in the Exchange next week.

Recent visitors: Lincoln Pierson, secretary of the Lord & Burnham Co.; Lewis Ullrich, Tiffin, O.

It is now a question of securing space at the chrysanthemum show. It will be necessary to utilize the galleries for the cut flower display in order to give room on the lower floor for the plants. The dailies have been very liberal with advance notices and no previous exhibition held here has had so much advance notice. All that is now needed is favorable weather to make the show a success from every point of view.

W. L. Palinsky has opened a cut flower store at 922 West 21st street.

St. Louis.

The heavy receipts of roses that were coming in last week have decreased owing to cooler weather; the market for them does not improve, however, owing to the increased crop of chrysanthemums. There are quantities of the latter being received and of all conditions from prize blooms down to southern grown stock, and prices are as various as can be. The best bring 25 cents each, and the worst generally bring a loss to the shipper. Trade is improving steadily, however; the advent of the shipping orders is becoming marked, and has the effect of lightening the market. Beauties are about the only stock that is in short supply, the best selling at \$3 per dozen.

In my trip among the florists recently Mr. Fillmore was called on and found as busy as usual; he was just about finish-

ing up the season's painting, being a great believer in that article, and as a proof showed sash that have been in use twelve years on greenhouse roofs, and are still in good condition. His "mums" are in good shape, there being some fine ones in 8 and 10-inch pots for the show; the majority, however, are in 6-inch pots and grown for market sales. The large house of carnations is looking well, Uncle John being noted for its large size thus early in the season. A bench of McGowans that have been started three weeks were well worth a trip to see, being strong and cov- with flower shoots. The roses were doing well, Wootton being exceptionally strong and vigorous. Subrosa Frank has his eye on the first prize for vase of Woottons at the show, and the Perles not far behind them. Lillums are grown more extensively than ever before, they having proved a good thing last season, and this year are about doubled. The general stock was looking in good shape; the only thing that caused any kicking were the snails, and they were too small to be harmed by it.

Mr. Meyers' place may fitly be called a chrysanthemum factory, to judge by its present appearance, there being house after house devoted to the Queen. Mr. Myers' trade is principally in market plants and he finds chrysanthemum plants an excellent thing to fill the houses with after spring sales are over. They are mostly in 6 and 8-inch pots; some, however, that were selected at the last potting and kept moving have made very creditable show stock. The first house visited was entirely of yellow varieties, Gloriosum and Whilldin predominating. The next house was entirely in whites, Canning, Jessica and Ivory being the favorites; the above five varieties are the principal ones grown, they having proved all that was required for market plants. A few nice standards were noted, not extra large, but sturdy enough to hold up their flowers without much tying, as a standard should.

Mignorette was met with in all possible places, every available corner being packed full of it, and in all possible sizes from the seed pan up to the plant ready for cutting. Quantities of it are grown, it being found very convenient to follow the chrysanthemum, just as the chrysanthemums succeed the spring stock. In speaking of the method of growing the mignorette and keeping it free from all insect pests, Mr. Myers has found that an application of a weak solution of Paris green about once every week or ten days will do the work nicely. The moths seem to recognize the fact that the plants are protected, and are seldom seen anywhere near them.

Quite a few hybrids are grown in pots for spring sales, principally Jacks and Brunners. Just at present there is the finest and most uniform batch of hybrids in 2-inch pots it has ever been my privilege to see; they were placed in the sand about the 1st of September, and have come through with scarcely the loss of a cutting. The cuttings were made from indoor grown wood, which was in prime condition when used. Carnations are grown in pots for market plants quite extensively; a striking difference in the appearance of two batches of the same variety led to the explanation that they had been grown in different localities, one batch in natural soil, and the other in made ground. The natural soil plants were as strong and sturdy as one could wish to see, while those from the filled ground were long and lanky, and would never make good plants.

Mr. Aue, late of the firm of Bruenig & Aue, is having three short-span-to-the-south houses erected for himself at Lindenwood; two will be devoted to carnations, and the third to roses.

Mr. A. E. Anderson of Thompson, Anderson & Kennedy had the ends of the two middle fingers of his left hand taken off while running a rabbling machine one evening last week. R. F. T.

Buffalo.

More beautiful weather than we have had the past three weeks could not be prayed for, and autumn leaves and bronze "mums" are all the rage. I don't mean that the bronze are especial favorites over yellow, white and pink, but it matters not what shade of chrysanthemums you choose; they all harmonize with nature's autumn tints. The "Queen" is here and in such quantity and excellence that she is likely to be politely and expensively entertained for the next month. As Grove Cle—I mean Rawson said "hurrah for the chrysanthemum." It comes as an oasis in the Sahara of a florist's annual existence, although it's a paradox to associate any part of a florist's life with a desert, yet the majority have more of the desert than the desert. But is it not true that when these wonderful flowers open out their beauty, it creates an enthusiasm with you as well as your customers? It sets them talking about the wonderful flowers they saw here and there. It takes a man's mind away from such sordid things as business and politics for a time at least. It's a blessing all round. Of course "mums" occupy the leading place in every window, as well as occupying the important part of every florist's brain power, be that made power ever so small. You will be overdone for the next six weeks with "mum" talk so I won't inflict any great amount on you. In my opinion they are holding their own in good style and show not the slightest indication of waning in popular favor. The varieties that are grown here in best form are Whilldin, Ivory, The Queen, Niveus, Mrs. J. Gardiner, Viviard-Morel, Domination and several others. A few more days will see many more of the good varieties open out. I want to tell your readers that of all the beautiful flowers both for size habit and color there is no chrysanthemum better than Maud Dean. It is a gem of the first water; very like Mermaid, only far better in all respects. A few extra fine flowers have sold as high as \$3 per dozen; they were not grown here. The people want a very limited number at that price. From \$1.50 to \$4 is the figure at which the bulk of the flowers will be sold.

Carnations are coming in more plentifully every day and greatly improves with quantity. There are almost too many roses now and only the very best quality bring a profitable price. When "mums" are gone it will be different. The sweet little violet is likely to be overdone. In every direction I see them doing finely and there will be many more grown in this neighborhood than can be sold.

An event that caused quite a ripple of excitement this week was the marriage of Mr. Wood, son of Mr. E. M. Wood of Natick, Mass., to one of our Buffalo belles. The decorations at the church and at the parlors of the beautiful Niagara Hotel, where the reception was held, were in charge of Wm. Scott, but Mr. Wood brought his own chrysanthemums and roses. Good gracious what flowers! Mr. Wood, Jr., had told us that his flowers would be three times as large as ours; he was at that moment looking at a 9-inch "Queen." We said

nothing; we only pitied him, but he came nearer the truth than we had any idea of. Such flowers were never seen here before. An illustration of their size may be gained from the following incident. A man came in to collect an ice bill. The clerk said "Mr. S. isn't in." He was in but entirely obscured by the flower and foliage of a "Mutual Friend." It was a great pleasure to the writer as well as to many others to meet Mr. Wood, both father and son, for like most all of the Boston men they are as clever and entertaining as they are unassuming.

Mr. Harry Bunyard has been here, only a complimentary call, he has dedicated to your correspondent a beautiful poem which I trust will be published in the horticultural press, for some of the verses are decidedly brilliant. Rhyme springs from "Arry" in copious quantities; it there should ever be a Poet Laureate appointed to the S. A. F. he ought to get the job with the same salary as the president.

Mr. Wm. J. Crowe of Utica and his pretty little wife has been to see us. We believe he enjoyed his brief visit here very much, as we did his company. He is an enthusiast in the business, and made of the material which climbs to the top.

I regret very much to have to say that Mr. E. I. Mepsted has been very dangerously ill. There is at this hour good hopes of his recovery. We want him to get well this time anyway, because we should miss him at Pittsburg when we roll "for them ere cups."

W. S.

Elmira, N. Y.

RAWSON'S CHRYSANTHEMUM DISPLAY, OCTOBER 29.

Bright weather brings out a large concourse of interested people to view the flower show; that speaks for itself—a tremendous Japanese army, a glittering solid phalanx, with a few Chinese strongholds in the background. The big lot of "mums" comprised a large assortment of new and old varieties, and all classes were well represented, giving one a good opportunity to judge comparative excellence. Those varieties fully done at this date (October 29) are as follows, diameter given is measured from top of petal over across the flower:

	Inches		Inches
Mrs. E. D. Adams	17	Mrs. Bullock	15
Waban	17	Chas. Davis	14
Niveus	14	Queen	13
Mrs. C. Lippencott	12	Ivory	12
Clinton Chalfant	12	Miss M. Redfield	10
Good Gracious	14	Golden Gate	14
Hicks Arnold	14	Mrs. J. N. Gerard	12
Mrs. E. G. Hill	12	Lillian Russell	14
Jessica	14	Anna A. Sturgis	10
Puritan	10	Jos. H. White	10
Belle Poitevine	10	White Boehmer	15
Louis Boehmer	12	Wm. Falconer	12
Ed. Hatch	14	Golden Queen	12
Golden Wedding	12	Armida	11
Martha Duryea	12	Troubadour	10
G. W. Childs	10	Mme. Therese Rey	10
Mabel Simpkins	12	G. P. Rawson	11
Mrs. Irving Clark	12	Col. W. B. Smith	14
I. C. Price	13	J. H. Taylor	11
Marie Ward	12	Vivian-Morel	14

and other good blooms not fully done, and a novel collection of oddities, especially useful for attracting attention. Of course pot plants and standards were represented and the novice would get a correct idea how to best grow the "mum" to advantage—not to be obtained in an exhibition hall.

Chrysanthemum still retains its hold on the general public as well as connoisseurs. The local papers were enthusiastic, visitors ecstatic, and when it comes down to business the account of sales speaks for itself.

A florist is something like an artist—reputation is a strong point in his favor, quite a desideratum in fact. But when

once secured it is comparatively easy sailing. Maintain a high order of excellence and you needn't worry about tariff measures or general politics. Simply stick to business and keep your eye on the main chance.

G. P. R.

Indianapolis.

Trade for October has been better than expected. The beginning of the month all flowers were scarce, now all are plentiful, especially roses, Perles, Mermets and others are a drug on the market. Chrysanthemums are more than plentiful. A sign in a local florist's window reads, "10 cents each, 3 for 25 cents" meaning very fair E. G. Hills. This chrysanthemum is plentiful everywhere; everybody is stocked up with it. Good yellow ones are yet scarce, white are plentiful. Through the starting up of so many small places in this neighborhood, the market is stocked with surplus roses, carnations and chrysanthemums. The first Harrisii lily came in this week; earliest on record around here.

The prospects for the coming exhibition are very flattering; the public seems to take more than usual interest in the chrysanthemum. The reception committee has arranged for an entertainment in the local club rooms Thursday evening. The Huntington Seed Co. invites all florists and others visiting Indianapolis during the week to an elaborate banquet at the Commercial Club Restaurant Wednesday evening. The committee will also have buggies and carriages on hand to take visiting florists all over the city. All are welcome. All we hope for now is good, cool crisp weather.

W. B.

Kansas City, Mo.

During the past week business has been extremely poor; in the retail stores the windows and ice boxes are filled up with good stock, for which there is no demand. Among chrysanthemums Jessica, Glorioso and Mrs. E. G. Hill are being cut, but unfortunately the latter is very little grown.

C. S. Smith of Kansas City, Kas., has done considerable building, and now has four houses, 20x65, 18x65, 12x65 and 7x65 respectively. He reports business as very slow.

Recent visitors: A. L. Vaughan, representing J. C. Vaughan, Chicago; J. H. Weeks, Liberty, Mo. Mr. Weeks has just completed three new houses, one 20x60 and two 11x80, heated by steam.

S. M.

The American Corn Journal, Sibley, Illinois, a monthly periodical, will commence publication January 1.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant ads. not admitted under this head.

SITUATION WANTED—In a retail store by a young man of 20. Best of references. Address BROOKLYN, care American Florist.

SITUATION WANTED—By florist and gardener. 50 life experience in the trade. Competent to take charge. C. L. 260 N. Ashland Ave., Chicago.

SITUATION WANTED—By a German florist; 12 years' experience around greenhouses. Good references. Address KANSAS, care Am. Florist.

SITUATION WANTED—By first-class florist; German. Can take entire charge of place. Also mushroom grower. 749 Sheffield Ave., Chicago.

SITUATION WANTED—As foreman or assistant foreman and propagator in first-class commercial place. G. TARR, Chestnut Hill, Phila., Pa., care John Burton.

SITUATION WANTED—A young man, age 23, wants to find a florist willing to employ inexperienced man at low wages. Good references. Address PERMANENT, South Manchester, Conn.

SITUATION WANTED—By strong youth as improver, 18 years old, in private or commercial place. Wages no object to get in a good place to finish learning the business. Address S. HESELTINE, Bar Harbor, Maine.

SITUATION WANTED—Gardener with good references, desires work on shares with party having greenhouses for the cultivation of cut flowers or forcing of vegetables. Address G. DOMAS, Bowne Park Hotel, Flushing, L. I., N. Y.

SITUATION WANTED—In florist or seed business by an energetic young, experienced Dutch bulb grower. French, German and English correspondent; also good salesman. Not afraid of any work. First-class references. PARTICULARS, care Am. Florist.

SITUATION WANTED—By a first-class rose grower and general plantman as foreman or manager in commercial place; 19 years' experience. Only those that want first-class service and willing to pay for the same need apply to this; references. Address D. C. care American Florist.

WANTED—Cut flower artist. Address B. A. ELLIOTT CO., Pittsburg, Pa.

WANTED—To rent with lease, a florist place with two or three greenhouses in or around Chicago. Address CULTIVATOR, care American Florist.

WANTED—A partner; a thorough florist and nurseryman. I have land and expected. Address A. D. CHASE, Ardmore, I. T.

WANTED—By young, single man, age 30, sober and industrious, employment on a commercial place. 5 years' experience in large commercial places. Western New York or Ohio preferred. Address WILLING, care American Florist.

FOR SALE CHEAP—Large second-hand florist's Ice Box, value about \$75. VAUGHAN'S SEED STORE, 88 State Street, Chicago.

FOR SALE OR RENT—Greenhouse, well stocked, 2500 square ft. of glass. Reason, bad health. For particulars inquire THEO. NOBLE, Green Bay, Wis.

FOR SALE OR RENT—Greenhouse and celery garden. Good business; no competition. Bargain on account ill health. Shares to right party. W. J. OLDS, Union City, Pa.

FOR SALE CHEAP—Large, new hard wood and glass florist's Refrigerator. Used at World's Fair. Price reduced to \$175. VAUGHAN'S SEED STORE, 146 & 148 West Washington St., Chicago.

FOR RENT—A fully equipped greenhouse, stocked with carnations, chrysanthemums and assorted plants. An established business. For particulars write to TITTSVILLE ROSERY, 128 Perry St., Titusville, Pa.

FOR SALE CHEAP—Five greenhouses with first-class stock. Will sell for \$4,250, half cash, on account of owner going to Germany. For particulars apply to FRANK HENSCHAL, 535 McLean Ave., Alhambra, Ill.

FOR SALE OR TO LET—Seven greenhouses and floral store, the oldest and only first-class establishment within one hundred and fifty miles of this city; cannot grow one half the flowers demanded. A rare chance to make money in a large and the most rapidly growing city in the world. Reasons for selling, am about to retire from all business. For particulars address A. MCCOMBEH, 921 East Third St., Duluth, Minn.

FOR SALE.

Florist store in a city of 40,000 inhabitants, one block from 2 ferries to N. Y. city; also opposite R. R. depot on principal thoroughfare, 5 distinct trolley lines pass the door; the only store in the city of its kind, store 25x35, building fixtures and all complete. For particulars apply J. J. PETERS, Long Island City, N. Y.

FOR SALE.

A FINE BULB, PLANT OR SEED FARM IN WESTERN NORTH CAROLINA.

Location 30 mi. from Asheville, the famous resort and sanitarium, and in the Piedmont region of the state. An entirely level stretch of land lying along the Catawba River and the Richmond & Danville R. R.; is a mellow, fertile, sandy loam, noted for its fine crops, and known locally as "river bottom." Would make a fine nursery for fruits or ornamentals. Adjoining tracts can be purchased also if desired. For terms and further particulars address

REV. J. C. BROWN, Greenlee, N. C.

PÆONY BULBS.

Large Clumps, \$40 per 100.

Will divide into 3 to 5 parts. Every florist should have 100. They pay. Write for 1000 price.

BRANT & NOE, FOREST GLEN, ILL.

A. Farleyense Fern

2-inch.....\$12.50 per 100
3-inch..... 17.00 per 100
4-inch..... 40.00 per 100

Largest stock in the west. Satisfaction guaranteed.

BAKER BROS., P. O. Box 72, KANSAS CITY, MO.

SUCCESS IN BUSINESS

Up to Date CHRYSANTHEMUMS.

The Queen,
Niveus,
Viviand-Morel,
Mrs. Craige Lippincott,
Marie Louise,
Mrs. J. Geo. IIs,
Pres. W. R. Smith,
Golden Wedding,
Challenge,
Eugene Dailedouze,
Major Bonnaffon,
Minerva,
Flora Hill,
W. N. Rudd,
Mermaid,
Mrs. Jerome Jones,
Etc., Etc., Etc.

ALL GRAND
EXHIBITION
VARIETIES.

SPECIMEN BLOOMS

selected and shipped
to order.

Carefully Packed.

The flower buyer of to-day wants up-to-date goods.

You cannot put him off with the varieties or the styles of 5 or 10 years ago.

If you try it you will lose your customer, and your competitor will get the benefit.

DID IT EVER OCCUR TO YOU?

There are Roses and Carnations to-day of a quality not dreamt of five years ago.

There are Chrysanthemums as far ahead of last year's stock as last year was ahead of its predecessors.

These are the goods your customers want, and this is the stock you will have if you are progressive.

WE CAN SUPPLY YOU.

A list of the growers whose productions we handle exclusively would astonish you.

They are famous the country over. They are progressive. There is nothing worth having that they cannot supply in quantity.

AT OUR NEW ESTABLISHMENT EVERY IMPROVEMENT THAT LONG EXPERIENCE CAN SUGGEST FOR THE CARE OF FLOWERS AND THE TRANSACTION OF AN EXTENSIVE BUSINESS HAS BEEN SECURED.

THOMAS YOUNG, JR.,

New Address 43 West 28th St., NEW YORK, N. Y.

THE AMERICAN FLORIST

Subscription \$1.00 a Year. To Europe, \$2.00.

Advertisements, 10 Cents a Line, Agate; Inch, \$1.40; Column, \$14.00. Cash with Order.

No Special Position Guaranteed.

Discounts, 6 times, 5 per cent; 13 times, 10 per cent; 26 times, 20 per cent; 52 times, 30 per cent. No reduction made for large space.

The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to those lines ONLY. Please to remember it.

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

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

Address THE AMERICAN FLORIST CO., Chicago.

HORTICULTURAL INSTRUCTION.—A 12 weeks' course of instruction in horticulture, supplemented by lectures on allied subjects, as chemistry of plant life, soils, fertilizers, economic entomology, botany, etc., is offered by the Pennsylvania State College, at State College, Pa., intended for students who find it impossible to pursue a full college course of four years. It extends through the months of January, February and March. While such a brief course cannot make an accomplished horticulturist it will incite a young man to more careful observation and intelligence in the cultivation of plants.

SOME FINE VIOLETS from Henry Diers of the Burr Oak Nursery, Sibley, Ill., were recently received at this office. Mr. Diers, who makes a specialty of ferns and violets, grows the latter entirely in solid beds, and is very successful with them.

THE AMERICAN FLORIST (\$1.00) and Gardening (\$2.00) together to one address for one year for \$2.50. Send orders to American Florist Co.

IF YOU have anything to offer to the trade send an adv. for our special chrysanthemum number to be issued next week.



FOLDING PAPER BOXES for CUT Flowers.

Made from Water-proofed, Double Manilla lined, Strawboard. Shipped flat, packed 100 in a crate.

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Roses, Carnations, Chrysanthemums, Valley, Violets, etc.

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SAMUEL S. PENNOCK,
Wholesale Florist
REAR OF 42 S. 16th STREET,
Philadelphia, Pa.

Cycas Leaves. FRESH CUT each 75c.
VAUGHAN'S SEED STORE, P. O. Box 688, Chicago.

CUT SMILAX.

15 cents per String.

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CHRYSANTHEMUMS.

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we lead them all for CHOICE CUT BLOOMS when you want to get "THERE." Remember also that we handle gilt edge Valley, Roses, Carnations, Orchids, and other flowers, and send out only **FIRST-CLASS** flowers.

STOCK PLANTS OF CHRYSANTHEMUMS:

MRS. E. G. HILL, best early pink.....	\$20 00	E. DAILLEDOUZE.....	50 00
YELLOW QUEEN, best early yellow...	50 00	MUTUAL FRIEND.....	50 00
CHALLENGE.....	20 00	MRS. J. GEO. ILS.....	50 00
BEAU IDEAL.....	20 00	ACHILLES.....	50 00
INTER OCEAN.....	40 00	A. H. FEWKES.....	20 00

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FINEST VARIETIES. BEST GROWN.

Headquarters for **AMERICAN BEAUTIES** and all other Choice **ROSES.**

Lily of the Valley constantly on hand.

Fine stock **Carnations and Violets.**

Choice **Smilax and Adiantum.**

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CHRYSANTHEMUMS,

Pink, White and Yellow.

IN ANY QUANTITIES AT SHORT NOTICE.

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ASPARAGUS PLUMOSUS NANUS.

CUT STRINGS 8 TO 12 FEET LONG, 50 CTS.

Shipped in large or small quantities to any part of the country. Orders by mail, telegraph or telephone.

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Hardy Cut Ferns,

BOUQUET GREEN,

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SPHAGNUM MOSS IN ANY QUANTITY.

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A complete line of Wire Designs.

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WHOLESALE CUT FLOWERS.
SEEDS, BULBS AND ALL
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WHOLESALE CUT FLOWERS,
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 OTHER SPECIALTIES:
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 WIRE WORK, OUR OWN MAKE.
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 OPEN TILL 8 P. M. SUNDAY TILL NOON.

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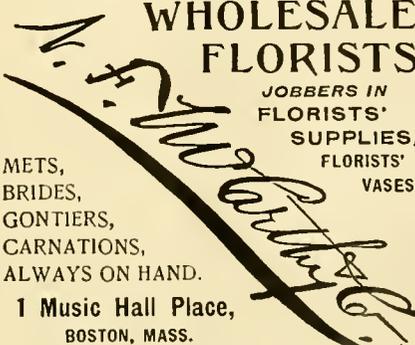
Wholesale Markets.

Cut Flowers.

	NEW YORK, Oct. 30.
Roses, average overstock..... per 1000, 3.00	
Beauty.....	2.00@ 5.00
" selected.....	10.00@20.00
" Meteor, Testout.....	2.00@ 4.00
" Kaiserln.....	2.00@ 4.00
Carnations.....	50@ 1.00
" fancy.....	1.00@ 1.50
Chrysanthemums.....	1.00@ 4.00
" fancy.....	6.00@25.00
Valley.....	2.00@ 3.00
Violets.....	.35@ .75
Smilax.....	8.00@10.00
Asparagus.....	35.00@50.00
Adiantum.....	75@ 1.00
	BOSTON, Oct. 30.
Roses, ordinary.....	1.00@ 3.00
" Extra, Mermets, Brides.....	3.00@ 6.00
" " Meteors, Bridesmaids.....	3.00@ 6.00
" Beauty.....	6.00@25.00
Carnations.....	1.00@ 1.50
" Daybreak.....	1.50@ 2.00
Chrysanthemums.....	4.00@25.00
Valley.....	3.00@ 4.00
Cosmos.....	.25@ .50
Violets.....	.50@ .75
Adiantum.....	.75@ 1.00
Smilax.....	10.00@12.00
Asparagus.....	35.00
	PHILADELPHIA, Oct. 30.
Roses, small.....	2.00
" large teas.....	3.00@ 4.00
" Beauties.....	12.00@16.00
Carnations.....	1.00@ 1.50
Valley.....	4.00
Smilax.....	12.00@15.00
Asparagus.....	35.00@50.00
Violets, double.....	.40@ .50
Cattleyas.....	35.00@40.00
Cosmos.....	.50@ .75
Chrysanthemums.....	3.00@12.00
Chrysanthemums, specimens per doz. 2@3	
Adiantum.....	.75@ 1.00
	CHICAGO, Nov. 2
Roses, Beauty.....	8.00@20.00
" Albany, Brides, Bridesmaids.....	3.00
" La France, Wootton, Testout.....	3.00
" Mermets.....	3.00
" Meteor.....	4.00
" Perle.....	2.50
Carnations.....	2.50
Violets.....	.75
Valley.....	4.00
Chrysanthemums.....	6.00@10.00
" Yellow Queen.....	15.00
" Mrs. Hill, doz.....	1.00@ 1.50
" Whildin.....	1.50
	ST. LOUIS, Oct. 30.
Roses, Perles, Wootton.....	2.00@ 3.00
" Bride, Mermet, Albany, La France.....	3.00@ 4.00
" Kaiserln.....	4.00@ 5.00
" Bridesmaid, Meteors.....	3.00@ 4.00
" Beauty.....	8.00@21.00
Smilax.....	15.00@18.00
Violets, single, per 100.....	25c
Carnations, long.....	1.00
" short.....	.50
	CINCINNATI, Oct. 30.
Roses, Perle.....	3.00
" Kaiserln, Mermet.....	4.00
" Bride, Bridesmaid.....	4.00
" La France, Meteor.....	5.00@ 6.00
" Wootton.....	4.00
" Beauty, Belle.....	8.00@20.00
Carnations.....	.50@ 1.50
Valley.....	4.00
Smilax.....	15.00
Chrysanthemums.....	8.00@25.00
	BUFFALO, Oct. 31.
Roses, Beauties.....	10.00@15.00
" Mermet, Bride, Kaiserln.....	3.00@ 4.00
" Perles, Cusin, Hoste.....	2.00@ 3.00
" Meteor, La France.....	3.00@ 5.00
Carnations, long.....	1.00@ 1.50
" short.....	.75
Valley.....	4.00
Violets.....	.50@ .75
Dahlias.....	.75@ 1.00
Chrysanthemums.....	6.00@12.00

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 Successors to WM. J. STEWART,
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 WHOLESALE.
 67 Bromfield St., BOSTON, MASS.
 New England Agent for the GREAT ANTIPEST.

WHOLESALE FLORISTS
 JOBBERS IN
 FLORISTS' SUPPLIES,
 FLORISTS' VASES.
 METS,
 BRIDES,
 GONTIERS,
 CARNATIONS,
 ALWAYS ON HAND.
 1 Music Hall Place,
 BOSTON, MASS.
 HORTICULTURAL AUCTIONEERS.



THE LEADING FAVORITES:

American Beauty,
Bridesmaid,
Meteor,
Testout,
 And all other desirable roses, grown especially for first-class trade.

BURNS & RAYNOR,
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 49 West 28th St., NEW YORK.

THOS. YOUNG, Jr.,
Cut Flowers,
WHOLESALE,
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Will Remove about Nov. 1 to . . . 43 West 28th Street.

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FLORIST,
 32 West 30th Street, NEW YORK.

Roses Shipped to all points. Price list on application.

Edward C. Horan,
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Careful Shipping to all parts of the country. Price list on application.

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FINE ROSES
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FLORIST,
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 Established 1879. . . .

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 NEW YORK.
 Cut Flower Exchange,
 ESTABLISHED 1884.

The Seed Trade.

AM. SEED TRADE ASSOCIATION.

D. I. BUSHNELL, St. Louis, president; S. E. BRIGGS Toronto, 1st vice-president; A. L. DON, 114 Chambers street, New York, secretary and treasurer.

The Onion Seed Situation.

The onion seed situation continues to be of general interest to the trade. The indicator hand seems to flutter about as wildly over the price dial as it did a week since, though there is little doubt that it is harder to get a firm offer on Wethersfield than any other item of the list and rates mentioned—not sales—vary from \$1.30 to 1.75.

We give below two more replies to our former inquiry:

William Meggat says:

"I am under the impression that the stimulant referred to in your last week's editorial is in part fictitious, and cannot get rid of that idea. I acknowledge that the crop is light, but the breadth planted was immense, and if there had been a full crop it would not have been worth 25 cents; with half a crop it may bring from \$1 to \$1.25 for Red and Yellow. If the price is put higher than that this fall it will be worth less next March. This is not a year when anything will bring boom prices, and if Red is short Yellow will be planted. Every year there is more Yellow and less Red planted. Fifteen years ago there were not over 400 acres of onion seed planted in the United States. This season there must have been 1,400 acres with what seed was carried over and allow half a crop for 1894. I say there is enough to go around at reasonable prices, even allowed for all the increased demand in that 15 years. When onion seed goes over 75 cents the commission box men cannot afford to paper it, and if they put only 20 papers of onion into a box instead of 40 or 50 papers that will make a difference of from 50,000 to 75,000 pounds which is thrown on the market and breaks it down. When onion is worth over 75 cents the box men lose money on every paper they put up. Onion has been reasonable for the past two years, and was papered by the box men freely. If they reduce the contents of the boxes to about the amount returned in them this year that will enable them to clean it out next spring. A short crop next year would be another tunc to dance to, but this year they can beat high prices in my humble opinion by selling their seed at wholesale."

Schlegel & Fottler say:

"We say amen to all of your article of the 20th. Extreme drouth has cut the yield down very considerably."

TO THE AMERICAN FLORIST:—Believing that all reliable seed houses will be anxious to realize as good a profit as possible the coming season, and learning by past experience that low prices will result in great injury to the trade, we would like to know if you could not through your columns bring out an expression from the seedsmen that will lead to a uniform listing of all the leading varieties of vegetables, particularly the varieties that are going to be a short crop, such as onions, peas, beans, sweet corn, etc., and not think by cutting the price that they will do all the business. It is the opinion of the writer that at fair prices each one will do his respective share of business, and when the season is over will have more to show for his hard labor.

Indianapolis. J. F. HUNTINGTON.

NASTURTIUM SEED is again likely to be in demand.

VISITING NEW YORK: George Crosman of Rochester.

E. B. DICKS of Cooper, Taber & Co., London, sailed for home per steamer Umbria on October 27.

THE Northrup, Braslan & Goodwin Co. have issued a preliminary trade list dated November 1, good ten days.

VISITED CHICAGO: J. F. Huntington, A. H. Goodwin, E. Schaettel, R. H. Shumway, J. T. Buckbee, R. C. Steele.

J. M. THORBURN & Co. have issued a preliminary price list in which they quote Red Wethersfield at \$1.10. It is understood, however, that it is supplied only when included in general orders with other items.

THEO. PABST died in New York, October 24 at 5.30 p. m., and was buried on Saturday the 27th. His disease was inflammation of the bowels. He had been American agent for Vilmorin, Andrieux & Co., Paris, for over 30 years.

News Notes.

LA CROSSE, Wis.—B. Beyer is out of business here.

FLINT, MICH.—D. P. Smith has added a new house 70x40.

AUSTIN, MINN.—A. N. Kinsman & Co. have made a 16x18 addition to their plant.

EAST NORWALK, CONN.—Harry W. Hoyt has just started in the florist business here.

E. GLOUCESTER, MASS.—John F. Wenson is building a greenhouse, and will enter the trade.

SUPERIOR, Wis.—P. F. Fowlers, of Fond du Lac, was recently here looking for land with which to start a nursery.

YPSILANTI, MICH.—Mr. and Mrs. Wm. Beech are adding a new house 20x60 for decorative plants. They expect to soon add still more glass.

EASTON, PA.—Joseph Schrank, the florist, died very suddenly of heart disease, September 20, aged 54 years. He was born in Germany, coming to America 20 years ago.

CEDAR RAPIDS, IA—W. Waterhouse suffered serious and painful injury of his face from a collision with projecting boards from a load of lumber last week. He is now improving.

NEVADA, MO.—Henry Roeskey, late foreman of the Patterson greenhouses at Ft. Scott, Kans., now has charge of C. W. Talbot's place here. The chrysanthemum fair will be held November 14 to 17.

BELMONT, CAL.—McLellan Bros. have built two houses 18x50 three-quarter span, and a lean-to 6½x50. Another florist in this vicinity is erecting a three-quarter span house 40x18 with the long span to the west. This is for cut flower growing.

MONONGAHELA, PA.—The *Daily Republican* of September 25 gives an excellent illustrated article descriptive of the establishment of Mr. I. Shelby Crall, the florist and gardener. From it we learn that Mr. Crall has 45,000 square feet of glass and 40 acres of land.

COUNCIL BLUFFS, IOWA.—The partnership heretofore existing between J. R. McPherson and Robt. F. Rain under the name of the Elm Park Floral Co. has been dissolved, Mr. Rain retiring, while Mr. McPherson continues in business. The firm had 7 houses 20x100, and Mr. McPherson is now building more.

MIDDLETOWN, N. Y.—Gray Bros. are completing two greenhouses, one 50x8 and the other 50x13. They purpose building four others, each 50x12, for forcing vegetables. They will be all connected and form a compact range of glass with large potting house and office at-

tached, with cellar for storage purposes, and boiler room. The heating to be by steam.

The Hose Mender Man Comes to Grief.

J. J. Van Julay has been held at Cleveland, O., on a charge of swindling, and the prosecuting attorney says he has no doubt of conviction with the evidence in hand. M.

Onion Seed, Crop '94 AMERICAN GROWN.

Large Yellow Globe Danvers,
Large Round Yellow Danvers,
Philad'a Yellow Strasburg,
White Portugal,
Southport Red,
Yellow & White Globe

Turnip Seed, Crop '94 AMERICAN GROWN.

The two scarce varieties this year:

Red or Purple Top
"Strap Leaf" Turnip.
White Flat Dutch
"Strap Leaf" Turnip.

These are all of the very finest quality, and suitable for the most critical trade.

SPECIAL PRICES ON APPLICATION.
NAME QUANTITY REQUIRED.

ROBERT BUIST, SEED GROWER,
PHILADELPHIA, PA.
Mention American Florist.

CHEAP BULBS

	Per 100	Per 1000
L. HARRISH.....	\$2.25	\$20.00
CALLA LILIES, extra size.....	8.50	
" " select.....	6.50	
DUTCH HYACINTHS, 2nd size, named	3.50	
TULIPS, single or double mixed.....	1.00	8.00
NARCISSUS Paper White grand.....	1.25	10.00
FREESTAS, 1st size.....	.60	5.00
CHINESE NARCISSUS (Chinese stock) 6.00, 80c. doz.		

BROWN & CANFIELD, Springfield, Ill.

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AT ONCE

For our Special

CHRYSANTHEMUM NUMBER

To be issued

NEXT WEEK.

BULBS!

Hyacinths

Narcissus

Tulips

Crocus

Lilium

etc.

At Reasonable Prices.
Just Received,
Limited Quantity.

White Roman Hyacinths,
12-15.
Dutch Hyacinths
for Forcing.

Paper White Grandiflora,
Polyanthus, Forcing &
Bedding Hardy sorts.

Single Early Named,
in sorts for bedding,
5000 for \$25.00.

Single Early Mixed,
5000 for \$22.50.

Large Yellow, Cloth of
Silver, Cloth of Gold,
per 5000 \$12.50. In
mixed sorts, per 6000
\$11.00.

Harrisii, 5-7, 9-11, 11-14.
Longiflorum, 5-7.

Candidums, Callas, Chinese
Narcissus, Berlin Pips Lily of
the Valley from cold storage
and to arrive.

C. H. JOOSTEN,
3 Coenties Slip, **NEW YORK.**



BEST GERMAN FORCING PIPS

\$9.00 the 1000 by the box of 2500;
\$10.00 the 1000 for less quantities.
Less ten per cent. for prompt cash.

August Rölker & Sons
New York, P. O. Station E.

**Seedling
Peach Pits**

FOR SALE.

Per 100 lbs.....\$ 2.00
Per Ton..... 30.00

COX SEED AND PLANT CO.
411, 413 & 415 Sansome Street,
SAN FRANCISCO, CAL.

W. R. Shelmire,
AVONDALE,
Chester Co., PA.
**CARNATIONS
AND COLEUS.**

THE BROWN BAG-FILLING MACHINE CO.,
MANUFACTURERS OF
AUTOMATIC MACHINES FOR PUTTING UP SEEDS,
FITCHBURG, MASS.

FOR THE SEED TRADE
**ONION SETS,
SWEET PEAS**

Vaughan's Seed Store,
New York: **CHICAGO:**
26 Barclay Street. 146-48 W. Washington St.

AND A GENERAL LINE OF FLOWER SEEDS, GARDEN TOOLS, ETC.



From Japan
Bulbs, Seeds, Trees, Palms, etc.

From Australia
ARAUCARIAS, PALM SEEDS, ETC.

From California
BULBS, SEEDS, TREES, ETC.

Orders booked up to December 1st for
CYCAS REVOLUTA STEMS.

Send for our new and interesting Catalogue '94-95.

H. H. BERGER & CO.,
(Established 1878.) **SAN FRANCISCO, CAL.**
Oldest and most reliable import house.

WE SELL BULBS
Special low prices to
Florists & Dealers.
WEEBER & DON,
Seed Merchants and Growers.
114 Chambers Street, **NEW YORK.**

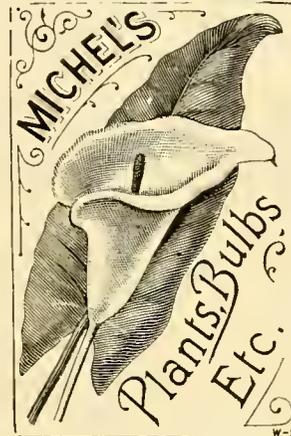
READY NOW.
Black Calla Bulbs
Extra size, \$10.00 per 100.
CASH WITH ORDER.
CHAS. SCHWAKE,
404 E. 34th Street, **NEW YORK.**

Choice Florist Seeds.
Pansy, Calceolaria, Primula, Cineraria,
choicest strains, at 25 and 50 cts. per trade packet.
Special quotation on **BULBS.**
W. A. MANDA,
The Universal
Horticultural Establishment, **SOUTH ORANGE, N. J.**

August Rölker & Sons
AUCTION ROOMS,
205 Greenwich Street, **NEW YORK.**
Sales every Tuesday and Friday during Sep-
tember and October.
Palms sold on Tuesdays only.

ROSES.
Clean, healthy stock.
MERMETS, BRIDES, SUNSETS,
NIPHETOS, LA FRANCE, PERLES,
MME. WATTEVILLE, 80N SILENE, METEOR,
PAPA GONTIER.
Strong plants from 3-inch pots, \$5 per 100; \$75 per 1000.
WOOD BROTHERS, Fishkill, N. Y.

Two Year Old Roses.
FINE LARGE PLANTS. Per 100
BRIDE and MERMET..... \$8.00
PERLE and SUNSET..... 9.00
GONTIER and SOUPERT..... 8.00
LA FRANCE and WHITE LA FRANCE..... 8.50
And all other standard varieties. Send list for
prices. Also immense and fine lino 2 1/2-inch pot Roses.
Finest Rex Bezonsias, 3-in. pots, \$5.00 per 100.
TERMS CASH WITH ORDER.
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Hulsebosch Bros.
ENGLEWOOD, N. J.
SELL ALL KINDS CHEAP.
Mention American Florist.

Roses, Plants, Trees, Etc.
We offer a choice stock of
**Roses, Bedding Plants, Shrubs,
Trees, Etc.,**
IN QUANTITIES.
5 Acres under Glass. 30 Acres in Trees, Shrubs, &c.
Send in your list and will quote lowest
prices by return mail.
Catalogues Free. Address
NANZ & NEUNER,
LOUISVILLE, KY.
Mention American Florist.

ROOTED Verbena CUTTINGS
Ready for Immediate Shipment.
They are perfectly healthy, and the best
named varieties.
Price, \$1.00 per 100; \$8.00 per 1000.
J. L. DILLON, Bloomsburg, Pa.

Lily of the Valley.
First quality for forcing, November delivery.
Strong pips, \$5 per 1000. Cash with order.
H. WREDE, Lunsberg, Germany.

FLORAL DESIGNS
The Cut Flower Worker's Friend. Fine book
of 160 pages. Send \$3.50 for it, to
J. HORACE McFARLAND, Harrisburg, Pa.

News Notes.

BUTTE, MONT.—Mitchell & Cobban have succeeded Mrs. Knox.

DES MOINES, IA.—The 29th annual meeting of the Iowa State Hort. Society will be held in the Cycling Club Hall, near the Savery House, this city, December 11 to 14.

LOUISVILLE, KY.—The florists of this city have organized the Kentucky Florists' Society with officers as follows: J. Schulz, president; E. Marrett, vice-president; Henry Nanz, secretary; J. W. Thompson, treasurer. S. J. Thompson has been appointed manager of the chrysanthemum show to be held November 6 to 10. The society will have a banquet November 8.

WICHITA, KANS.—A chrysanthemum show will be held here November 13 to 16 by the Wichita Florists' Club. The officers of the club are Chas. P. Mueller, president; Mrs. J. W. Wingard, vice-president; W. H. Culp, secretary; F. Keuchmeister, treasurer. C. A. Rose will be general superintendent of the exhibition. The premium list has been printed and copies may be had on application to the secretary.

MILWAUKEE, WIS.—The souvenir programme for the chrysanthemum show has been issued. The music will be by the Philharmonic Orchestra and the programme is a very attractive one. It includes "The Milwaukee Florists' March," composed by Mr. Julius Klokner. Copies of the programme and premium list may be had by addressing the secretary of the Milwaukee Florists' Club, Mr. A. Klokner, 930 Grand avenue. The judges at the show will be Messrs. C. B. Whitnall, J. A. Pettigrew and C. L. Mann.

ERIE, PA.—We shall have a chrysanthemum show after all. The decision to go ahead comes late but we have the material for a good show. The dates selected are November 7 to 10 inclusive. H. Tong, G. Schluraff and E. Newburger constitute the committee in charge, and to whom requests for further information should be addressed. The following florists have been building this year, in addition to what you have already published: G. Schluraff 3 houses, Titus Berst 5 houses, J. Trost 1 house, and H. Tong, manager Massasauga Gardens, one large palm house for specimen palms.

PANSIES.

The Jennings Strain of large flowering and fancy Pansies ready October 15th and on to May 1st.

THE JENNINGS STRAIN ALWAYS SATISFACTORY. Price free by mail 60 cts. per 100; by express 1000, \$5.00; 5000, \$20; 10000, \$35. All colors mixed. Pansy seed, finest mixed, 2500 seed \$1. " " yellow black eye, 2500 seed \$1.

E. B. JENNINGS, Wholesale Pansy Grower, Lock Box 254, SOUTHPORT, CONN.

PANSY SEED.

NEW CROP NOW READY. Very fine mixture of large flowering varieties and choice colors, especially selected for florists' use. 1 oz. \$3.00.

NEW GIANT PRIZE PANSY, finest strain in the market. 1 oz. \$5.00.

Low prices on Liliun Harrisii, Longiflorum, Roman Hyacinths, Lily of the Valley, etc.

Special low prices on Rustic Baskets. HERRMANN'S SEED STORE, 413 EAST 34TH STREET, Near Long Island Ferry, NEW YORK.

"CHRYSANTHEMUMS."

We grow about FIFTY of the leading sorts.

We can supply

SPECIMEN flowers, any color, at \$25 per 100. Medium sized flowers \$10 per 100.

Also CUT ROSES, as

PERLES, BRIDES, LA FRANCE, BEAUTIES, BRIDESMAIDS.

Address NANZ & NEUNER, LOUISVILLE, KY.

New Carnations our Specialty

FRED. DORNER & SON, FLORISTS,

LA FAYETTE, : : INDIANA.

CARNATIONS

ROOTED CUTTINGS now ready, of desirable kinds for EARLY SUMMER BLOOMING.

Seedlings, Novelties and Standard sorts in season. C. J. PENNOCK, The Pines. KENNETT SQUARE, Chester Co., PA.

THE COTTAGE GARDENS,

Queens, Long Island, N. Y.

WHOLESALE CARNATIONS.

WHY NOT TRY A FEW ORCHIDS?

They are Very Cheap. They are Easily Grown. They Sell Well. They always attract attention in store or greenhouse.

BRACKENRIDGE & CO., 304 W. Madison St., BALTIMORE, MD.

CHRYSANTHEMUMS.

FINE STOCK PLANTS OF

YELLOW QUEEN, MISS KATE BROWN, and other leading varieties. Prices on application.

STOLLERY BROS., 1003 Center St., Argyle Park, Chicago.

Pansy Plants.

EXTRA FINE STRAIN.

75 cents per hundred; \$5.00 per thousand.

ESSEX HEIGHTS FLORAL CO., BELLEVILLE, N. J.

CARNATIONS.

AMERICAN BEAUTY, strong plants.

A. S. MacBEAN, Lakewood, N. J.

GOOD FIELD PLANTS

— OF —

Sweetbrier Carnation.

\$15.00 PER 100.

Other varieties on application.

EDW. SWAYNE,

KENNETT SQUARE, PA.

CARNATIONS

After the early chrysanthemums are thrown out many florists plant carnations. We have a few thousand good plants heeled in in cold house suitable for this purpose which we offer, to close them out, at

\$4.00 PER 100.

PORTIA, TIDAL WAVE, GARFIELD, HINZE'S WHITE.

J. L. DILLON,

BLOOMSBURG, PA.

Mention American Florist.

CARNATIONS

Strong plants in cold-frames.

White Dove, White Wings, Lamborn, Hinze's White, \$3.00 per 100.

Garfield, Mrs. Fisher, Blanche, Portia, Attraction, Golden Gate, Ben Hur, Mrs. Reynolds, Richmond, Mrs. Hitt, J. J. Harrison, Golden Triumph, Louise Forsch, Nellie Lewis, Purdue, Spartan, Dawn, \$1.00 per 100.

MARIE LOUISE VIOLETS, from 2-inch pots, \$2.50 per 100; \$20.00 per 1000.

TERMS CASH WITH ORDER.

JOSEPH HEINL, Jacksonville, Ill.

CARNATIONS

MRS. E. REYNOLDS \$8.00 per 100 BUTTERCUP 6.00 "

WILDER HINZE's and others 5.00 "

CYCLAMEN, 3 1/2-inch pots 6.00 "

GENISTAS, 5-in. pots, nice stocky plants 12.00 "

SMILAX, 2 1/2-inch pots \$12.00 per 1000

Address J. G. BURROW, Fishkill, N. Y.

CARNATIONS.

Rooted Cuttings, Young Plants, Field-Grown Plants in season. Send for prices.

Geo. Hancock & Son, Grand Haven, Mich.

OUR ANNUAL CHRYSANTHEMUM NUMBER

WILL BE ISSUED
NEXT WEEK.

It will have the handsomest title page we have ever used, will be extra size, beautifully illustrated, and a number that will be a souvenir to keep. The many chrysanthemum shows occurring the same week will be reported in this issue.

NO INCREASE IN ADV. RATES.

Send in copy for advs. at once. Have it REACH US by NOVEMBER 7 at LATEST and as much EARLIER as possible.

Advs. will be received at our eastern office, 67 Bromfield street, Boston, up to Nov. 5.

AMERICAN FLORIST Co.,

P. O. Drawer 164.

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Siebrecht & Wadley,

ROSE HILL NURSERIES,
NEW ROCHELLE, N. Y.



Palms,
ORCHIDS,
Roses,

and New Plants.
FRESH DRACAENA CANES NOW READY.

GERANIUMS. Rooted Cuttings.

The BEST of the BETTER sorts, all good standard bedding varieties. Not one that is not A No. 1.

Labeled . . . \$1.50 per 100; \$12 per 1000.
Without Labels \$1.25 per 100; \$10 per 1000.

GARNATION CUTTINGS in season.

Inquiries answered and estimates cheerfully given.

ALBERT M. HERR,
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For our Special

CHRYSANTHEMUM NUMBER,
To be issued
NEXT WEEK.

A. Hermann,

MANUFACTURER OF METAL FLORAL DESIGNS
AND DEALER IN FLORISTS' SUPPLIES.

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A First-Class Certificate of Merit Awarded for Metal Designs at Atlantic City Exhibition.
SEND FOR CATALOGUE.

120 VARIETIES. 120

Stock Plants of Chrysanthemums.

Send your list of wants for prices.

THE HIGHLAND FLORAL CO., DAYTON, OHIO.

JAPANESE IRIS,

A splendid collection.

PHLOX,

In bright desirable colors.

PAEONIES,

Choicest varieties.

Send for Catalogue and special trade prices.

OASIS NURSERY CO.,
Thos. Griffin, Mgr. Westbury Station, L. I., N. Y.



CLEMATIS..

FOR FALL DELIVERY.

Special prices at wholesale, on application.
Splendid stock and assortment.

DOZEN, \$3.00; 100, \$22.50.

F. A. BALLER, Bloomington, Ill.

10,000 CINERARIAS

of surprisingly brilliant colors, dwarf and large
flowered, 2 1/4-inch. \$2.50 per 100

Begonia Vernon,
2 1/4-inch. 3.00 per 100
CASH WITH ORDER.

S. WHITTON & SONS, Wholesale Florists,
9 and 11 Roberts Street, UTICA, N. Y.

CYCAS REVOLUTA.

Orders booked now for fresh imported stems, fronds and roots cut off; best long-leaved variety. Delivery Feb. 1st to April. Cultivated Cycas always on hand, rooted and well established

Lil. Auralum, Spec. Rubrum and Album, Etc.
Iris Kæmpferi, in 100 choice varieties.
Japanese Maples, in best varieties.
Camellias, Pæonies, Tree Ferns, Raphis, Etc.
Araucaria excelsa, choice cultivated stock at lowest prices.

For general Japanese stock apply to

F. Gonzalez & Co.,

303 to 312 Wayne St., SAN FRANCISCO, CAL.
Mention American Florist.



CLEMATIS PANICULATA, from 3-inch pots, \$3.40 per 100. From open ground, strong plants, \$15.00 per 100.
AMPELOPSIS VEITCHII, from 3-in. pots, vines 2 to 3 feet long, at \$6.00 per 100; \$50.00 per 1000.
HONEYSUCKLES, EVERGREEN & HALLIANA, \$6.00 per 100.
GOLDEN, \$7.00 per 100.
ROSA WICHURAIANA & RUGOSA, \$8.00 per 100.
General line of Flowering Shrubs and Vines. See new trade list.
THE WM. H. MOON CO.,
Morrisville, Pa.

News Notes.

SOUTH HAVEN, MICH.—J. W. Hicks has bought out Theodore Mikkelsen.

RACINE, WIS.—J. Benstead has gone into the business here, putting up two houses, each 70x16.

COLUMBUS, O.—The park board is considering bids for the erection of a conservatory in Franklin Park.

INDIANAPOLIS, IND.—R. F. Harritt has gone into business here, having put up 2 houses at 469 Virginia avenue.

NASSAU, N. Y.—Articles of incorporation of the Rensselaer County Agricultural and Horticultural Society have been filed.

BELLEFONTE, PA.—Geo. Baldwin, late head gardener at Penn. State College botanical garden; has opened a florist store here.

SPRINGDALE, ARK.—The second annual meeting of the Arkansas State Horticultural Society was held here October 16, 17 and 18.

MILLBROOK, N. Y.—W. C. Lester has taken H. J. Smith in partnership, and the firm will do business under the title Lester & Smith.

BLACK RIVER, WIS.—The Henry Lake Sons Company, nurserymen and florists, has been incorporated with a capital stock of \$10,000. The incorporators are Henry, Robert P. and Alex H. Lake.

MANCHESTER, N. H.—The New Hampshire Horticultural Society held its first exhibition here October 11. It was essentially a fruit exhibition, the display being very creditable, particularly in apples and pears. Plants and flowers were but sparingly represented, L. B. Schwartz of Manchester making the largest and best display, both in plants and cut flowers.

SPRINGFIELD, ILL.—Miss Belle Miller is the progressive lady florist of this city and in addition to her already fine establishment has erected this summer a new rose house 180x14; also a new and commodious office 28x24. Miss Miller is a grower of roses and carnations only and leaves the plant trade entirely alone. The stock would do credit to many florists of the sterner sex.

GAINESVILLE, TEX.—H. Kaden is adding a new house 18x90. His greenhouses recently barely escaped destruction by fire. The barn, stable and wagon shed, located only a short distance from the houses, were set afire by lightning. The barn and contents, 7 tons of hay, 60 straw mats, etc. were destroyed. A heavy rain at the time and the wind blowing away from the greenhouses was all that saved them. There was no insurance on the barn.

WILLIAMSPORT, PA.—Evenden Bros. have recently added two more houses to their establishment, one a ¾-span 16x110 and the other a short span to the south 14x110. They are for carnations and chrysanthemums. This addition gives them about 40,000 feet of glass, exclusive of hotbeds and cold frames. They have also enlarged their store on East Third street. Their roses and carnations are in prime health and growing vigorously while their chrysanthemums, both in beds and pots, are all that could be desired, especially the latter, which are stocky well grown plants.

Sunset Seed and Plant Co.

(SHERWOOD HALL NURSERY CO.)

No. 427-9 SANSOME STREET,

SAN FRANCISCO, CALIFORNIA.

HEADQUARTERS FOR

CALIFORNIA-GROWN SWEET PEAS

And other Flower Seeds.

PACIFIC COAST TREE SEEDS

And Native Bulbs.

JAPANESE LILY BULBS

And other Oriental Specialties.

ONION SEED, PEAS, BEANS, ETC.

Write for special contract prices.

ORCHIDS OUR SPECIALTY.

The Best and Largest Stock in the World.
New & Rare Foliage & Flowering Plants.
A grand selection for Stove, Greenhouse and Conservatory.

SANDER, St. Albans, England.

Our Mr. A. Dimmock will be pleased to interview buyers or reply to any communication addressed to him at 235 Greenwich St., New York City.

Order Now.

Ready by November 15th, fine lot of

Double White Primulas

In 4-inch pots; will bloom this season. For florists short of white carnations no better substitute can be grown.

CASH WITH ORDER.

PRICE PER DOZEN.....\$ 1.50
" PER HUNDRED..... 10.00
50 at hundred rates. Write for special prices in large quantities.

Address WM. ROETHKE,
1717 Gratiot Street. SAGINAW, W. S., MICH.

CHRYSANTHEMUMS

Fine stock plants of

MRS. E. G. HILL, QUEEN, IVORY,
and 50 other varieties.

Send for list. PARKSIDE FLORAL CO.,
W. C. COOK, Supt. 70th & Adams Ave., CHICAGO.

FERNS.

ADIANTUM CUNEATUM. Fine young stock, from 2½-inch pots, \$5.00 per 100; \$45.00 per 1000.

Field-grown Carnations—SOLD OUT.

FISHER & AIRD,

ELLIS, NORFOLK CO., MASS.

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STOCK EARLY CHRYSANTHEMUMS.

MRS. F. BERGMAN, best and earliest white, cut Oct. 4, '94, price 25c. each.
MRS. E. G. HILL, best early pink, cut Oct. 13, '94, price 25c. each.
YELLOW QUEEN, best early yellow, cut Oct. 6, '94, price 50c. each.
Minerva, Autumn Eve, H. L. Sunderbruch and Bessie Cummings, 50c. each; \$5.00 per dozen.
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- 200 Cineraria, 4-inch pots, strong, 10c.
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- Coreopsis lanceolata, Achillea "The Pearl," Hardy Phlox, Helianthus, Hibiscus, crimson eye, and other Hardy Perennials.

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- CASH WITH ORDER.

Baltimore.

The last club meeting was well attended and most of the members could give a very good reason for being there, for the question of postponing the show was to be settled once for all, and, while very few cared to make themselves conspicuous by trying to induce an action that might be disastrous, yet there was a great deal of an uneasy feeling that it might be the best thing to do after all. Baltimore is blessed with several extra and popular amusements during the same week the show is set for, besides the stock attractions of theaters, etc; for the "haut ton" there will be the great horse show, the like of which never was seen before in size and advertising; then to catch the flower lovers, the rival show of Mr. John Donn; and last, even our staunchest supporters, the church people are to be drawn away by a great revival conducted by Mr. Booth of Salvation Army fame. As if this were not enough some of the members who have great plants declared the buds would not be half open by the time set, and the committee said that as every other show every where to be held during the same week they would have great difficulty in securing judges. It is to be hoped no one will ever think the Baltimore Gardeners Club deficient in courage, when, in the face of all these dangers from within and without, they decided to stand to their guns and hang their banners from the outer walls; i. e. to hold the show at the time set, and to hold a grand one; so all our friends are expected to drop in from November 5 to 10 inclusive and see if we are not abreast of the times. Fisher & Ekas exhibited a bloom from a seedling of this year, incurved canary yellow, delicately penciled with red on the upper side of petals, strong stem and upwards of six inches diameter.

After the exhibition committee had made arrangements for receiving and sending the flowers to Philadelphia to compete for the club premium in that city the question box was opened, and a little stack of paper taken out. Many of the questions related to the coming show, but one or two were of general interest. "What is a profitable crop to succeed chrysanthemums in the houses?" Mr. C. Hess said carnations, E. Kress thought pot roses for spring sales, W. Christie preferred pot roses, but could get a crop of lettuce off before putting in the roses. "Is lime in soil injurious to ferns?" W. Ekas said he thought it decidedly beneficial. The same gentleman answered the next question which was "Will tobacco smoke injure violets?" by saying they would stand as much as roses, but advising not to smoke the evening before picking blooms, on account of the smell clinging to them.

Mr. Chas. E. Smith has opened a store at No. 101 North Liberty street and is handling very pretty carnations and roses.

Only two special premiums this year. One member wanted to hold the show two weeks. MACK.

MANCHESTER, N. H.—The annual meeting of the New Hampshire Horticultural Society was held on the evening of October 10, and the old board of officers was re-elected. The first annual exhibition of the society was very extensive, there being shown no less than 840 plates of apples alone. The flower and plant department, while of lesser importance than the fruits and vegetables, was also successful.

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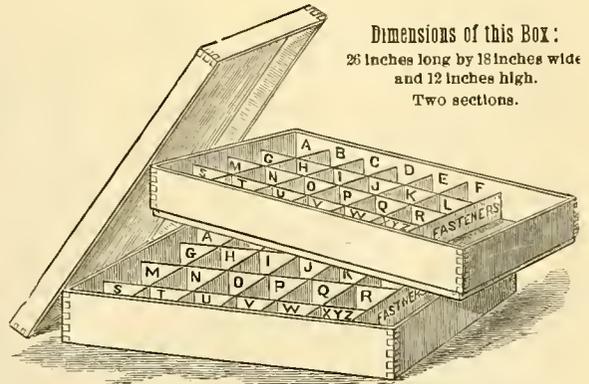
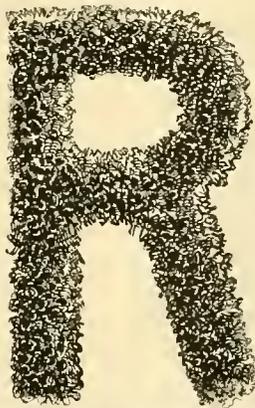
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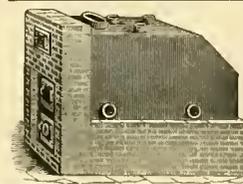
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 Manufacturers of
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Greenhouse Material,
LOUISVILLE, KY.
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Toronto.

The weather has been simply beautiful for the time of year lately—Indian summer I suppose—and has had the effect of bringing chrysanthemums on altogether too quickly for the date of the show. Early sorts will be past and over before that time, but there is no reason to doubt that there will be plenty left of the later sorts to make a good show.

Many of the boys talk of taking in the Hamilton (Ont.) show, which comes off on the 7th and 8th. Some will probably take up exhibits and endeavor to knock the pretension of the "ambitious city" into a cocked hat. The contest promises to be lively, and a good time is expected.

Florists report trade to be steadily improving, but all are praying for a good killing frost. There were some good outdoor violets on the market last Saturday. Cosmos too still holds out. For good chrysanthemum blooms 75 cents to \$1 a dozen was being asked. E.

Galt, Ont.

On the 15th inst. Mary McCulley, wife of Alex Common, florist, died rather suddenly of heart failure after an attack of pneumonia of about ten days duration. Her death is a stroke to Mr. Common and was a great surprise to her many friends whom she had endeared by her genial character. In her death he not only loses a loving wife but a valuable assistant in his business, as she devoted much of her time to it. She leaves no children. We all sympathize with him in his sad bereavement. D. McGEORGE.

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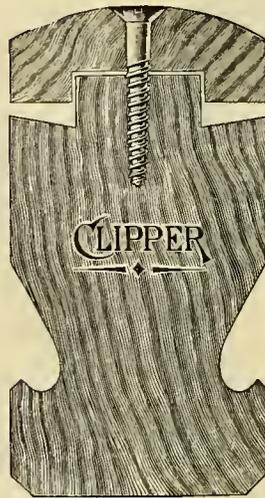
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Next Week.



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Gentlemen.—We expect to put up three more houses the latter part of this summer, and as your lumber gave perfect satisfaction both as to quality and workmanship, we wish to give you the preference, and everything else being equal you will receive our order. Very truly
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Announcement to Florists.

We desire to announce the dissolution of the firm of Sipfle Doppfel & Co., and to introduce to the trade its successor, The Syracuse Pottery Co., which will be under the management of William Doppfel and Conrad Breitschwerth. The business will be conducted as heretofore, except on a larger scale to meet the growing demand for our goods. We have accordingly enlarged our plant and capacity, and with unsurpassed facilities are now prepared to fill the largest order on short notice. Our latest improved machines are turning out the best and most serviceable flower pots in the market, and assuring you of our intention to lead in further improvements we solicit a continuance of your patronage in the belief that we can supply just what is needed at a price and in a manner satisfactory to all.

Send for price list and samples and we know you will give us an order.

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2 "	" 3.25	7 "	" 35.00
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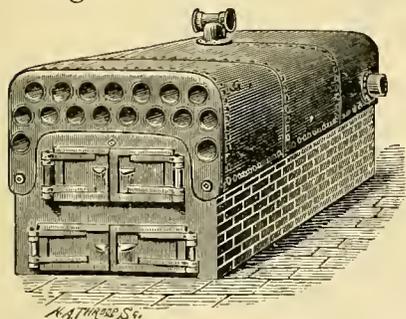
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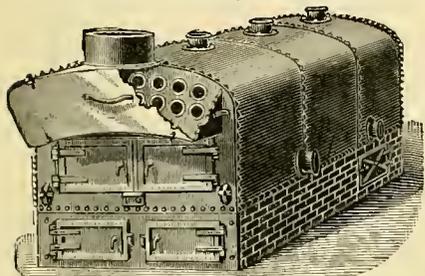
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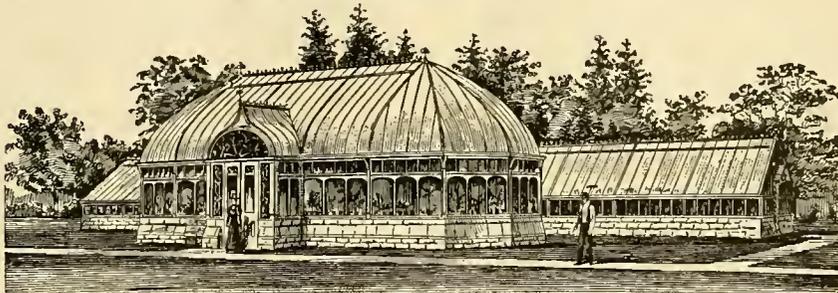
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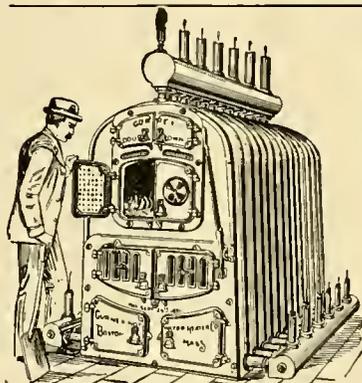
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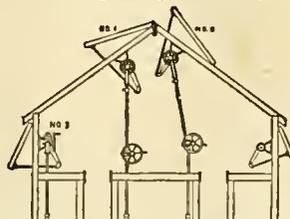
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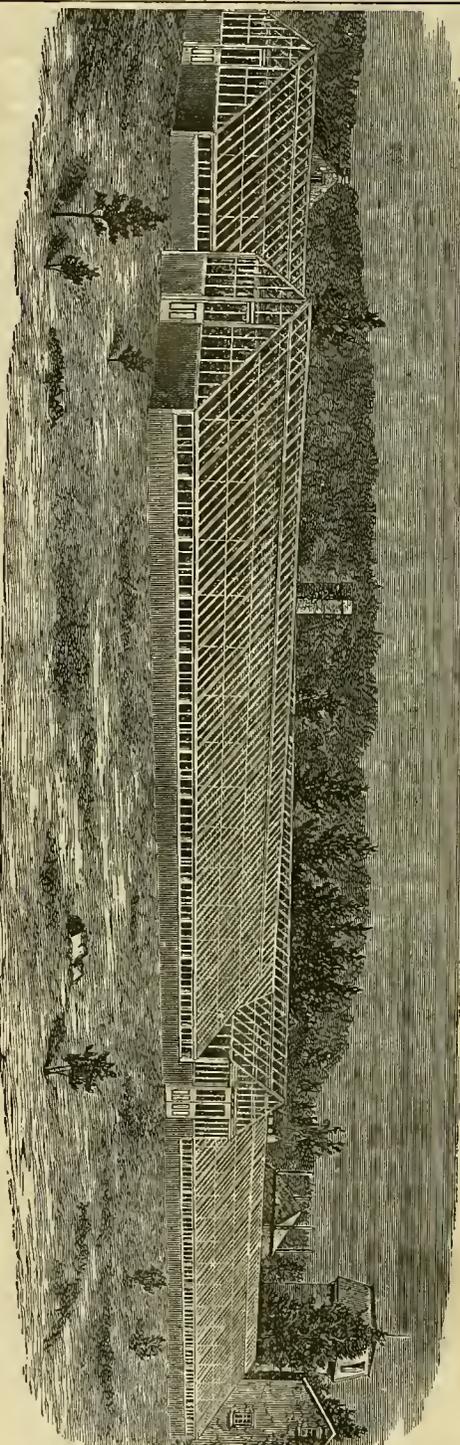
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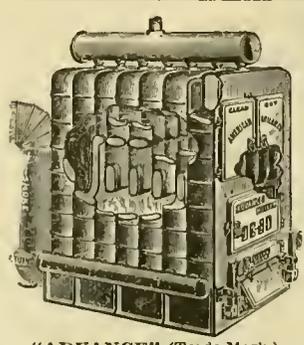
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Vol. X.

CHICAGO AND NEW YORK, NOVEMBER 10, 1894.

No. 336

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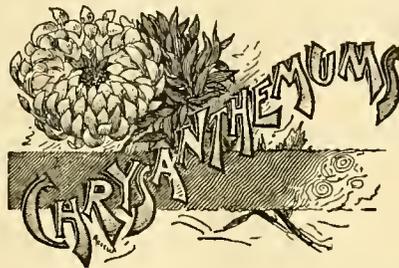
J. T. ANTHONY, Chicago, president; ROBERT KIFT, Philadelphia, vice-president; WM. J. STEWART, 67 Bromfield St., Boston, Mass., secretary.

The new officers to be installed Jan. 1, 1895, are: EDWIN LONSDALE, Chestnut Hill, Philadelphia, president; E. C. REINEMAN, Allegheny City, Pa., vice-president; WM. J. STEWART, Boston, secretary; H. B. BEATRY, Oil City, Pa., treasurer. The 11th annual meeting will be held at Pittsburg, Pa., August, 1895.

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SPRINGFIELD, O.—Mr. John Good, of the firm of Good & Reese, had a narrow escape from serious injury while hunting recently. While drawing a gun toward him by the barrel the trigger caught and the load was discharged up his sleeve. Fortunately he escaped serious injury though it was a very close call.



THE EXHIBITIONS.

Chicago.

Although we were denied the classic background of the Art Institute this year, the show being held in one of the armories (Battery "D"), there is no doubt of its artistic success, the whole effect being extremely charming. The primeval bareness of the ceiling and rafters was entirely obscured by ample decorations of bronzy oak leaves and pendent festoons of Florida moss. This was thoroughly in harmony with the brilliant "Queen of Autumn," far superior to the conventional hunting so often seen. The bronze oak leaves were lavishly used wherever there might be a suspicion of bareness, giving the hall a finished air. But the display was so large that it was impossible to look in any corner without seeing something of note.

The arrangement of exhibits on the main floor gave one the impression of a flower clothed valley, the taller plants being towards the sides, sloping up to the covering of oak leaves, crowned by the gallery full of cut blooms. This gave an excellent effect; there was nothing to cut off the line of vision on entering, and each large group stood out boldly at its full value. Specimen groups filled the corners, while the central groups of orchids and decorating plants stood out apart from the chrysanthemums. The chrysanthemum is never so attractive as when in company with autumn foliage alone, and there is no question that it should never be within hailing distance of an orchid; the increased effect given by the isolation of the table of orchids, with the valley of chrysanthemums stretching away on either side, emphasized this fact.

Among the decorative plants was a large oval bed of Araucaria excelsa, bordered with ferns, immediately before the entrance. These plants, exhibited by the Art Floral Co., were in the pink of condition, and made a most attractive display.

Naturally we always expect to see a finer show among cut flowers than plants, though it is but fair to say that the plants here this year were far above the average, particularly the bush or naturally grown. The single stem plants are always good, but we can not always say

this of the bushes and standards. It is invidious to make comparisons, but perhaps the most decorative arrangement in cut flowers seen on the opening day was Frank Benthey wearing a Mrs. Bayard Cutting the size of a well developed soup plate in his buttonhole. The manner in which the cyclone of pink petals nestled in the neighborhood of his beard was much admired, and caused quite a ripple of excitement among the State street shoppers, they believing that our aesthetic friend was the chrysanthemum show in person.

THE CUT FLOWERS.

The cut flowers filled the balconies, the ground floor, with but few exceptions, being taken up by the plants. As at the last show, the vases of 50 blooms, one variety, were of especial interest, including some magnificent flowers. The varieties were much the same as last year, in spite of the more recent introductions. In fact it seems as if some of last year's beauties do not show to quite such good advantage this season as last.

Naturally the vases of 50 blooms, one variety, were of special note, and it is interesting to see that the Queen, last year's winning favorite, was still in the lead; it appeared more frequently and in finer condition than any other white, and was the variety receiving first, second and third for 50 whites. Excepting where individual flowers were shown Niveus did not seem up to last year, and Mutual Friend, though fine in the plant classes, did not show to nearly so great advantage among cut flowers.

For vase of 50 blooms, white, all three prizes, first, second and third, which were taken by E. G. Hill & Co., Richmond, Ind., J. C. Vaughan, Chicago, and Fred S. Walz, Cincinnati, O., went to The Queen, which, it will be remembered, was the winner of the first prize in the same class here last year. These blooms were surpassingly fine, and from the frequency with which the variety appeared in the white classes it appears first favorite for exhibition, though others may be preferable for commercial purposes. Niveus, the wonder of two years ago, seemed relegated to the background.

For vase of 50 blooms, yellow, Fred Dorner & Son, LaFayette, Ind., were first with Major Bonnafon. These flowers were easily first, although Eugene Dailedouze shown by E. G. Hill & Co. was also excellent. But the rich yet clear yellow, perfect finish and fine foliage of Bonnafon carried off the honors, Hill taking second, and Fred S. Walz, Cincinnati, O., third with H. L. Sunderbruch.

For vase of 50 blooms, pink, Stollery Bros., Argyle Park, Ill., were first with Viviani-Morel. This variety showed up in excellent shape wherever shown, but this vase was perfection in color, form and finish. The second went to Fred S.

Walz for Mrs. Potter Palmer, which, although fine and well grown, contrasted poorly with Vivand-Morel. Third prize for pink went to Nathan Smith & Sons, Adrian, Mich.

For vase of 50 blooms, crimson, one prize only was awarded, first, to E. G. Hill & Co. The variety was John Shrimpton, a deep velvety blood-red, somewhat like Cullingfordii, but larger.

In the bronze class, 50 blooms, E. G. Hill & Co. won on two entries, taking first and second prizes, first for Joey Hill and second for Segusiana. The latter though an attractive and well finished bloom, has a russet tipped tinge which suggests fading, and seems hardly desirable on this account.

Vase of 50 blooms, any other color, first only was awarded, going to E. G. Hill for Pitcher & Manda. This variety was quite freely exhibited, and appeared very attractive to the public.

For best 25 varieties, one flower of each, first went to E. G. Hill & Co., second to Bassett & Washburn. Both were fine displays, but Hill was before his competitors both in finish and in lasting qualities of bloom.

For 12 varieties, one flower of each, first to Pitcher & Manda, Short Hills, N. J.; second to Fred Dorner & Son. Both collections included some very fine blooms. One of the most charming whites noted was Mrs. C. H. Duhme, in Dorner's collection; it is a large incurving flower, with an outer fringe of recurving guard petals, very well finished and graceful.

For collection of named varieties, one flower of each, not less than 40 varieties, Hill & Co. was first, J. C. Vaughan second. Hill's collection included some very choice varieties, among them Rose Wynne, a prize winning English sort, a very large, broad-petalled incurving white, Richard Dean (French), a most charming pink, Miss Georgia Bramhall, an incurving lemon yellow, of good size and beautiful shape, Chas. Davis, Challenge, Dailledouze, Golden Gate, etc.

For collection of odd and peculiar forms, not less than 25 blooms, Hill & Co. received first, the only prize awarded. It seems a pity there was not a greater display of these oddities, for they seemed very interesting to the public. The various anemone forms composed the bulk of them. There was Rider Haggard, a botanical spasm in magenta, bordered with a halo of pink tape, Amoor, a great flat whorled bronze, which showed up well among single stem plants, Nemesis, a globular pink with a quilled center, Mephisto, an incurved bronzy apricot, Whirlwind, bluish, and several floral cyclones in various tints including some of the bairy section so eccentric in hue and form that they looked as if afflicted with some eruptive disease.

For six vases, 12 flowers in a vase, Hill & Co. received first, Bassett & Washburn second, and J. C. Vaughan third, all good displays.

For vase of white, 12 flowers, first went to J. C. Vaughan, second to Hill & Co., and third to Bassett & Washburn.

For vase of yellow, 12 flowers, Bassett & Washburn took first with Eugene Dailledouze, grand flowers, equal to those which astonished us last year; second to Fred Dorner & Son for Bonnaffon, and third to Hill & Co.

Vase of pink, 12 flowers, first went to Hill & Co. for Richard Dean, a shapely pink, something in color like V. H. Hallock. The flower is globular, the petals channelled, pressed down into a little spoon-like depression near the end, which is forked into a tiny swallow tail. A

beautiful flower. Second went to J. C. Vaughan for Constellation; third to Southside Floral Co., Springfield, Ill.

Vase of crimson, 12 flowers, first prize only was awarded; it went to Hill & Co. for Fisher's Torch.

For vase of any other color, 12 flowers, Pitcher & Manda received first for variety Pitcher and Manda; Hill & Co. second for Inter-Ocean; A. M. & J. B. Murdoch, Pittsburg, Pa., third.

This completes the first day's awards for cut flowers. The flowers, in most classes, were above the usual standard though there were many surprises. It was a little surprising to see how feebly L'Enfant des Deux Mondes was represented; it appeared among single stem plants, and was found in collections of cut flowers, but where a single variety only was in competition it did not appear at all. Challenge, from which we all expected much, has not borne out its first promise; it is outclassed by several other yellows. We certainly give the palm to Bonnaffon, though Dailledouze too was fine; Mrs. C. Lippincott, though good, hardly came up to these two. Inter-Ocean in many cases seemed very pale, but it is a beauty, and showed well among the single stem plants. Chas. Davis was good, but also seemed a trifle pale in some cases, still its beautiful Vivand-Morel shape will make it a favorite with many in any case. We should like to see more of Rose Wynne; Mr. Hill expressed himself as not entirely satisfied with it yet, though it is a beauty. Richard Dean is exquisite in color and in shape. Mermaid looks a trifle coarse; so too does Ed Hatch, and the latter was very pale. Mrs. Frank Thompson, which was one of the "stars" seven or eight years ago, looked an indifferently pink bunch of shavings, compared with her younger rivals—so soon have we changed in our ideas of floral perfection. Louis Boehmer only showed in the large collections, and Mrs. Alpheus Hardy appears to be dead. We can see, more than ever, that perfection of finish and excellence of habit are looked for among present favorites, far more than size or oddity alone.

CHRYSANTHEMUM PLANTS.

The plant display was, in many respects, much better than last year. The specimen plants were certainly much better than we have seen for several years, so were the standards. The single stem plants were remarkably fine as a whole, the varieties being well chosen, and the plants well grown.

In specimens and standards the honors were pretty evenly divided between J. C. Vaughan and Bassett & Washburn. For specimen white Bassett & Washburn received both first and second prizes, J. C. Vaughan taking third. For specimen yellow J. C. Vaughan took first and third, Bassett & Washburn second. For pink specimen Bassett & Washburn took first and second, J. C. Vaughan third. For specimen crimson J. C. Vaughan was first, Bassett & Washburn second and third; specimen, any other color, the same. Specimen bronze, Bassett & Washburn first and third, Vaughan second. The competition between these two firms was very close, the plants being good in both cases, and they were well trained, being free from the torturing palisade of sticks so often noted.

But the single stem plants were the great attraction. On entering, just behind the fine bed of araucarias previously mentioned, was the winning group of 50 plants grown by Hill & Co. The eye was first caught by a block of Minerva, perfect plants, the rich golden flowers with

a strong stem well clothed with fine foliage; behind these, continuing the harmony of the yellow, a number of the golden-eyed Pitcher & Manda, backed by other varieties sloping at the opposite side, the taller Pitcher & Manda forming the middle group. The plants were of such even quality throughout that it was a pleasure to study them. Inter-Ocean showed very well in this group; Challenge, though large, was greenish and undeveloped in the center. Amoor, an odd whorled bronze, noted among the cut flower fantasies was in very good form, dwarf but large flowered. In this class second prize went to Bassett & Washburn, third to J. C. Vaughan, both these competitors making an excellent display.

In the class calling for 25 single stem plants J. C. Vaughan was first, Bassett & Washburn second, and Hill & Co. third. Among the winning plants Marie Louise, Mutual Friend, Mrs. C. D. Avery, Eda Prass, Chas. Davis, Vivand-Morel and Golden Gate were specially good.

Among the standards, which were all better than last year, Vaughan and Bassett & Washburn were the only competitors, they taking first and second in the order named for six standards. Vaughan took first for single standard for white, pink and yellow, second for white and yellow. Bassett & Washburn second and third for yellow, second for pink, and third for white. The whites (Goguac) were perhaps the best bloomed of the standards.

OTHER PLANTS.

The class calling for a general display of chrysanthemums, arranged for effect with other plants on 150 feet of space, was an important one, the prizes being respectively \$100, \$75 and \$50. There were six entries, and it may be said, in a general way, that they were better than previous displays of similar character. But still they left much to be desired. It seems as if our decorators are wedded firmly to the shingle roof idea of arrangement; each leaf must overlap its fellow. There were some arrangements which looked like a nice parti-colored terrace which had just been clipped smooth with a lawn mower. Then again there were cases where the arrangement was merely a general display of other plants with a few chrysanthemums dotted in like punctuation marks. And there was a display of gold fish and statuary, backed by palms, and brightened by upwards of a dozen chrysanthemum blooms, but these arrangements certainly could not be called "displays of chrysanthemums and other plants"—they were displays of other plants minus chrysanthemums. However, the judges manfully wrestled with these trials, and gave first to Bassett & Washburn, second to Parkside Floral Co., and third to J. C. Vaughan.

For pair of palms the prize went to H. F. Halle, for two well grown kentias; the same exhibitor received first for 6 palms, second prize going to Albert Fuchs.

For pair of decorative plants other than palms, first went to John Fuhrman, gardener to Adolph Schoeninger, Chicago, second to Parkside Floral Co. John Fuhrman received first for 6 decorative plants other than palms, his plants including a beautiful *Microlepis hirta cristata*, *Adiantum Farleyense*, *Lastrea Smithii*, *Anthurium Reynoldianum*, and crotons Prince of Wales and Queen Victoria. These plants were well grown and in fine condition. Second prize went to E. G. Uiblein, Chicago, for a group including a fine *Anthurium Veitchii*, a plant we do not very often see.

It was felt that although several of the



A CORNER AT THE CHICAGO EXHIBITION.

groups arranged for effect could not properly compete, the schedule calling for chrysanthemums arranged with other plants, still they added so much to the decoration that the judges recommended a substantial recognition be made these exhibitors. The groups consisted of palms and other decorative plants, and were arranged by the Art Floral Co., H. F. Halle, Albert Fuchs and John Fuhrman.

Of the \$125 to be awarded according to the discretion of the judges for meritorious displays not entered in any other class of the following awards were made:

To the Art Floral Co. \$25 for group of araucarias, 31 plants, in four varieties. These araucarias occupied a circular bed, carpeted with moss, and bordered with ferns and selaginellas or lycopodiums. The effect was charmingly natural, and though it is probable that but few of the general public were aware of the actual value of this exhibit, its beauty attracted all. The recognition given by the judges was amply deserved.

To E. G. Uihlein \$25 for display of orchids, and \$25 for decorative plants. Mr. Uihlein's display occupied two tables, and was always surrounded by appreciative visitors. The orchids were as

usual the great attraction. A good many cypripediums were among them, including a blooming plant of the rare and beautiful *C. Chamberlainianum*, which we believe has never been displayed in Chicago before. The charming crimson punctation of the lip, and the twisted barbate spotted sepals made the flower the most remarkable cypripede there. Some attractive forms of *C. Spicerianum* were also noted. There was a very nice *Lælia Dayana*, *Anguloa Clowesii*, *Odontoglossum grande*, *Cattleya Bowringiana*, *Oncidium ornithorynchum*, etc. The table of decorative plants was prettily arranged, and displayed some good ferns, *nepenthes*, *sonerilas*, *fittonias*, *begonias*, etc., making a very instructive exhibit.

To Bassett & Washburn \$15 for group of begonias. This included some of the showy hybrids of the Rex type, and made a metallic bank of foliage at one side of the stage.

To E. Wienhoeber & Co., Chicago, \$35 for general display of plants and cut flowers. This display, which was on the north side of the hall, consisted of a semi-circular bank of palms, in perfect condition, bordered by a table of cut flowers, fringed with *adiantum* and feathery *cocos*.

The cut flowers consisted of chrysanthemums, roses, carnations, heliotrope, violets, etc., and was refreshed day by day, being always kept in fine order. The arrangement of this display was greatly admired.

A certificate of merit was awarded to Hill & Co. for a plant of the new *canna* Queen Charlotte with three fine spikes of bloom, which the judges considered very meritorious.

A special premium was also awarded to Mrs. G. M. Pullman for a group of decorative plants. This collection coming in on the third day was not considered in competition with other displays. The central plant of the group was a stately specimen of *Sabal umbraculifera*, the tub being draped with other plants, including *Cissus discolor*. Some *latanias*, *kentias*, *rhapis*, foliage *anthuriums*, ferns, etc. filled up a very striking and stately group.

An odd conceit in cut flowers, brought in on the third day by Anthony & Curran (not for competition), was a venerable hod filled with Eugene Dailedouze chrysanthemums and bronze oak leaves. And it was really quaint and attractive—the arrangement was charming if its receptacle was so humble.

ROSES AND CARNATIONS.

The first rose competition took place on Monday, the third day of the show, and the display being large and most attractively staged. Most of the roses, like the cut chrysanthemums, were in the gallery, but Bassett & Washburn made their display on a large round table near the stage, which held their chrysanthemums earlier in the show. The arrangement of this exhibit was really beyond all praise; no one could approach it without admiration. The table cover was strewn with ferns—at one side was a long trailing spray of fragrant stephanotis. At either side were huge bunches of lily of the valley and violets. In the center tall trumpet shaped vases held American Belle and American Beauty, the lesser lights being grouped around them. The arrangement was by Mr. Andrew Benson, the grower of the flowers, and evinced so much artistic feeling that we can not help commenting on it as the ideal way to set up an exhibition display. For vase of 25 American Beauties, and the same of American Belle, Bassett & Washburn received both first and second; no thirds were offered in the rose and carnation classes. Bassett & Washburn also took first for 50 Perle des Jardins, second for Mme. Caroline Testout and La France.

Reinberg Bros., who displayed some very fine flowers, received first for Kaiserin Augusta Victoria, no second being awarded; first for 50 Brides, 50 Bridesmaids, 50 La France and 50 Meteor; second for Catherine Mermet and Perle des Jardins.

W. A. Kennedy, Lake Forest, Ill., received first for any new variety with very fine Mrs. Whitney; first for Gontier and second for Meteor and Bride.

J. M. Gasser, Cleveland, O., received first for any other variety (Mme. de Watteville) and Mme. Cusin, second for Bridesmaid. G. W. Miller, Hinsdale, received second for any other variety with Sunset.

The rose display received additional interest through the arrival of two debutantes but newly introduced to the rosarian world. One was Belle Siebrecht, exhibited by Siebrecht & Wadley, New Rochelle, N. Y.; the other Mrs. Pierpont Morgan, from John N. May, Summit, N. J. The first named is an English rose, its parentage being La France \times Lady Mary Fitzwilliam. Its color is not very far from that of Mrs. Whitney, the bud long and pointed, very shapely, the petals, as they open, showing the curling tendency of La France, though not so much as the latter. It is fragrant, with good stem and foliage, and is certainly a beautiful rose, and arrived after its long journey in the pink of condition. The judges awarded it a certificate of merit, and considered it a most valuable addition to our list of pink roses.

Mrs. Pierpont Morgan, Mr. May's new rose, must receive special interest from the fact that it is of American origin, for our rose growers have not been so active as the carnation men in the production of new varieties. It may be described as a magnified Mme. Cusin, but much deeper and of more even color, fuller petalled and when fully expanded of a cup shape. The color appears to lighten up under artificial light. Its parentage was not given. The judges regarded it as a decided acquisition, and it was awarded a special certificate of merit.

The carnation display was very good, most of the flowers showing finely. It is worth noting that Albertini seemed the greatest favorite with the general public; all were admired, but it was Albertini



Scale
one foot.

NEW CHRYSANTHEMUM CRYSTALLINA, AS SHOWN AT CHICAGO.

people pointed out to their friends, or revisited for a second look.

Among the premiums awarded August Jurgens took first for Garfield, Albertini and any other pink; second for any red other than Garfield; second for W. Scott; first for striped with Helen Keller. F. L. Pruse took first for Silver Spray, first for Portia and Tidal Wave. Stollery Bros. were first for Lizzie McGowan, second for Portia and Daybreak, first for introduction of 1894 other than red or white. Anthony & Curran were first with Uncle John. J. F. Klimmer was first for red other than Garfield; Geo. Bayer second for Lizzie McGowan and any other white, second for Tidal Wave. Albert Fuchs was first with Daybreak.

H. E. Chitty, Paterson, N. J., made a very attractive display with his new varieties mentioned in a recent issue of this paper. He received first in the class for 50 blooms any other white with Alaska, first for 25, introduction of 1894, with the same; first for red, introduction of 1894, with Corsair; second for striped and any other color, introduction of 1894, with Minnie Cook. His flowers bore the long journey well, and were favorably received.

J. M. Gasser received first for 100 blue violets; Bassett & Washburn second. For 200 spikes lily of the valley first went to August Jurgens, second to J. M. Gasser.

SEEDLING CHRYSANTHEMUMS.

Following are the awards on, and the judges' descriptions of, the entries in the classes for tested seedlings:

PHILADELPHIA. Certificate. Hugh Graham, Philadelphia. A grand large incurved bloom, full and globular, the most distinct variety on exhibition. Creamy white in general effect, a tone of color difficult to describe.

CRYSTALLINA. Certificate. J. C. Vaughan, Chicago. Snow white, medium size flower, Snowball type. Quite distinct and early.

E. M. BIGELOW. Certificate. Fred Dorner & Son, Lafayette, Ind. Best red to date. Almost perfect habit as ex-

hibited. Large sized bloom, full and regularly incurved.

MRS. S. T. MURDOCK. Certificate. Fred Dorner & Son. Improvement over any existing tones of light rose or pink, all things considered. Good size, substance and finely formed.

MRS. H. W. EMERSON. Certificate. Fred Dorner & Sons. As compared with Sunderbruch, Mrs. Craig Lippincott and Dailedouze, et al., several points in its favor. A glorious yellow of great size.

MRS. W. H. RAND. Certificate. J. C. Vaughan. A distinct variety of Japanese type. In color a remarkably rich yellow, fine long twisted and reflexed petals a little after the style of Shawmut. It is highly recommended as a cut flower.

GOLD DUST. E. G. Hill & Co., Richmond, Ind. Special mention. Decided improvement of the yellow hairy type.

MRS. MOSES J. WENTWORTH. J. C. Vaughan. Special mention. Large rich yellow, full and deep. Strong compact habit. An improvement in the Chinese class.

LOUISE D. BLACK. E. G. Hill & Co. Special mention. Splendid color of Jardin des Plantes, golden orange, full deep bloom.

MRS. DARLINGTON. E. G. Hill & Co. Special mention. A magnified Jos. H. White of salmon tint, nearly white when fully expanded.

OAKLAND. Fred Dorner & Son. Special mention. Clear shade of even terracotta. An ideal bloom full and deep.

MILDBROOK. Fred Dorner & Son. Special mention. A large exhibition flower after the Vivand-Morel type. A bronzy salmon red shade.

BURT EDDY. J. C. Vaughan. Special mention. An immense flower for exhibition, full and double but objectionable color, silvery rose and purple. An improvement, however, in this class.

JAYNE. J. C. Vaughan. Special mention.



NEW CHRYSANTHEMUM PHILADELPHIA

For exhibition or pot plants highly commended. Excellent habit. Dark shaded rose, regularly formed, incurved blooms.

LAFAYETTE. Fred Dorner & Son. Special mention. Worthy of trial as exhibited, for dwarf pot plants. Color rosy amaranth.

MANTEL DECORATIONS.

Tuesday brought out the mantel decorations. There were seven entries, and on the whole the work showed an advance over that of former years, though we do not think any of them were entirely beyond criticism. The first prize went to Anthony & Curran for a tasteful

arrangement in cattleyas. A cattleya plant stood at one side, and trailing sprays of asparagus springing from this were brightened by cattleya flowers caught in the vine. The plants towards the sides were palms and ferns, and the only unnecessary note was a bunch of valley on the shelf. This was greatly admired.

The second prize went to Walter Kretling. In this decoration the colors were green and white; the overmantel was filled with adiantum, a white leaved caladium showing below; the plants at sides and below were green palms and ferns, and in the center of the shell was a large vase of Mrs. Duhme chrysanthemums, forming a graceful trailing bunch. The third prize was awarded to W. J. Smyth, both mantel and overmantel being banked with ferns; the flowers used were Cattleyas labiata and Bowringiana, and a yellow odontoglossum. In addition to these awards the judges gave especial commendation to the arrangements by H. F. Halle, O. J. Friedman and P. J. Hauswirth. The judges were ten ladies prominent in Chicago society. A more detailed description of the decorations, with illustrations and an analysis of the awards by the judges, will appear in the next issue.

THANKS TO THE JUDGES.

On Tuesday evening, at 6 o'clock, the officers of the Horticultural Society and a number of those most active in the exhibition entertained the judges with a little dinner at the Union League Club. In addition to President Chadwick, who presided, and the three judges, there were present Messrs. W. C. Egan, W. N. Rudd, J. C. Vaughan, O. P. Bassett, G. L. Grant, Mr. Dorner Jr., W. J. Smyth, P. J. Hauswirth, T. F. Keenan, Jos. Locke, Geo. Gardner. The affair was entirely informal and was thoroughly enjoyable. The judges, Messrs. Scott, Rawson and Bennett, were officially thanked for their kindness in taking up the onerous work of judging the exhibition of 1894, and for the pleasure of their presence. Each replied in a pleasant speech, saying many complimentary things about the exhibition and wishing the society financial success equal to the artistic perfection attained in the display. Every one regretted that there was not more time to do the various subjects justice, Mr. Scott being obliged to take a train at 8 o'clock.

ROSES AND CARNATIONS.

The second competition in roses and carnations occurred on Wednesday. In the rose class calling for 25 American Beauties J. M. Gasser, Cleveland, O., was first with a fine vase; the same exhibitor took second for 50 Brides and 50 Bridesmaids, first for 50 Mme. Cusin. Bassett & Washburn were second for 25 American Beauties, first for 50 Bridesmaids, first for vase of 12 American Belle, and second for Perle des Jardins. Reinberg Bros. were first for Kaiserin Augusta Victoria, first and second for Mme. C. Testout, first for The Bride, La France, Meteor and Perle des Jardins, second for Catherine Mermet, and any other variety (with Duchess of Albany). W. A. Kennedy was second for 50 Meteor, first for Catherine Mermet, first and second for Papa Gontier, and first for 50 of any other variety, with Mrs. Whitney.

In the carnation classes of the second competition H. Weber & Son, of Oakland, Md., won first prize for 50 blooms of Lizzie McGowan, first for any other white, and Portia, second for any other red, second for Wm. Scott, first for any striped variety (with J. J. Harrison). Henry Mundt received first for Silver Spray, and first for Tidal Wave. Albert Fuchs was second for Silver Spray, second for Tidal Wave and Daybreak. Stollery Bros. were second for Lizzie McGowan, and first for any other color. Aug. Jurgens was second for Portia, first for Garfield, Albertini and any other pink, second for striped, with Orange Blossom, and second for any



Scale
one foot.

NEW CHRYSANTHEMUM MRS. S. T. MURDOCK, AS SHOWN AT CHICAGO.

other color. Anthony & Curran were first for Uncle John. J. F. Klimmer was first for any other red, with Thos. Cartledge, first for Wm. Scott. W. A. Kennedy was first for white, introduction of 1894, and Nathan Smith & Son, Adrian, Mich., first for pink, introduction of 1894, with Mapledale.

In the class calling for 100 violets J. M. Gasser was first and W. A. Kennedy second.

A new rose from Lewis Ullrich, Tiffin, Ohio, was exhibited by Reinberg Bros., Chicago, too late for competition. It is a good fair size, and shapely bud, clear blush with a deeper salmon tint in center, after the order of Mme. Pierre Guillot and Watteville, and yet distinct from either, as shown in a bunch of fifty.

The finest violets at the show came from Thos. Devne & Son, Poughkeepsie, N. Y., and arrived too late for competition.

TABLE DECORATIONS.

There were twelve entries in this competition, the arrangements being in most cases an improvement over previous years. P. J. Hauswirth was the winner of the first prize. His table was round, large enough to avoid all appearance of crowding. In the center was a light and feathery mound of maidenhair and cypripediums, standing on a mirror bordered with selaginella. Six feathery little cocos rising from a tuft of selaginella stood at intervals in the space between the centerpiece and covers. The favors were cypripediums and ferns. The exquisite simplicity of this arrangement was its great attraction, and the central group was so light and airy it suggested all sorts of poetic similes.

The second prize was awarded to W. J. Smyth, whose arrangement consisted of a high center bowl of cattleyas and Adiantum Farleyense; around it were four

specimen glasses holding light sprays of the same. This table also was free from any suspicion of overcrowding, and was really very tasteful.

The third prize went to J. M. Gasser, for the only chrysanthemum table shown. Like the two first described it was round. In the center was a tall trumpet glass filled with yellow chrysanthemums and ferns. Around this, but some little distance from it, was a broad band of the yellow chrysanthemums loosely arranged; single specimens were laid at each cover. This was a handsome arrangement, and very well set up. A fuller description of all the tables, with analysis and illustrations, will appear in next week's issue.

CHRYSANTHEMUM PLANTS.

Thursday's competition in plants was confined to the single stem class. For 40 plants, white, J. C. Vaughan received first on habit and foliage; Bassett & Washburn second, R. Witterstaetter third. For 40 plants, pink, J. C. Vaughan first; Bassett & Washburn second. For 40 plants, yellow, first J. C. Vaughan; second Bassett & Washburn, third R. Witterstaetter. For 40 plants, any other color, J. C. Vaughan first. In the classes for yellow and any other color Hill & Co. were ruled out, their exhibit not complying with the rule requiring them to be grown in the pots in which they were shown, though the quality of the plants was very fine.

The cut blooms of chrysanthemums shown on Thursday consisted of introductions of 1894, 10 blooms, not less than five varieties. The first prize went to Hill & Co., second to J. C. Vaughan.

I. N. Kramer & Son, Marion, Iowa, and J. C. Vaughan made displays of canna blooms, not for competition. F. W. Woodward, Eau Claire, Wis., sent a beautiful spike of Vanda Sanderiana, the first time this rare and exquisite orchid has ever been exhibited in Chicago.



Scale
one foot.

NEW CHRYSANTHEMUM E. M. BIGELOW, AS SHOWN AT CHICAGO.

REVIEW OF THE VARIETIES SHOWN.

Following we give an alphabetically arranged list of the varieties shown at Chicago, with comments on same by the three judges, Messrs. Wm. Scott, Grove P. Rawson and A. W. Bennett. The comments represent the combined judgement of the three gentlemen named.

Alba Venus. Good pot plant for general exhibition.
 Allerton, Mrs. A. C. Others better.
 Allerton, Mrs. S. W. Others better.
 American Flag. For exhibition cut flower.
 Amoor. Best of the Wheeler type. Good dwarf pot plant and fine exhibition cut flower.
 Arnold, Hicks. Good all around bronze.
 Autumn Glow. Others better.
 Avery, Mrs. C. D. Good as shown in Chicago, as a rule rather small.
 Bilsley, Harry. Still first-class, though rather tall.
 Bard, The. Good pot plant.
 Beau Ideal. Not fully developed when exhibited.
 Beaute Lyonnaise. Others better.
 Benedict, Judge. Hardly large enough as shown.
 Boehmer, L. Excellent bush plant.
 Bonnaffon, Major. First-class all around.
 Bramhall, Miss G. Fine exhibition flower.
 Calendula. Others better.
 Canning, L. Excellent pot plant.
 Chalfant, Clinton. First-class second early yellow.
 Challenge. Fine late yellow.
 Constellation. Good pot plant.
 Coupland, Mrs. Wm. Good general exhibition cut flower.

Craig, Mrs. R. First-class late variety
 Dailledouze, Eugene. Grand mid-season variety for exhibition and commercial use.
 Davis, Chas. First-class exhibition sort.
 Dean, Richard. Beautiful shade of pink, fine for cutting.
 Devoniensis. Others better.
 Domination. Still one of the best; correct name Mrs. Bullock.
 Drexel, Mrs. A. J. The best of its color—deep amaranth.
 Dulme, Mrs. C. H. Others better.
 Falconer, Wm. Good for plants and cut flowers.
 Fewkes, A. H. A fine late variety.
 Fifer, Mrs. Gov. Good pot plant, but not a cut flower.
 Fisher's Torch. A good maroon red for cut flowers.
 Giraud, M. A. Others better.
 Gladette. Others better.
 Goguc. Good pot plant.
 Golden Gate. Splendid exhibition cut flower.
 Haggard, Rider. A beautiful anemone, worthy of general trial.
 Hallock, V. H. Still all right.
 Hearst, Mrs. Senator. Good for exhibition.
 Higinbotham, Mrs. Best of the hairy pinks.
 Hill, E. G. Still an excellent late variety.
 Hill, Joey. Only for exhibition.
 Hill, Mrs. E. G. Fine with some, unsatisfactory with others.
 Hitzeroth, Emma. A fine late primrose yellow for commercial.
 Inter Ocean. Very fine for general use.
 Iora. Good for exhibition.
 Ivory. Still unsurpassed; best selling white to date.

Jeffords, Marguerite. Very fine golden bronze.
 Jessica. One of the best early whites.
 Joanna. Others as good and better.
 Kimball, Mrs. W. S. Exhibition variety.
 Lanier, Mrs. C. Others better.
 L'Enfant des Deux Mondes. Best white hairy and splendid pot plant.
 Lincoln, W. H. Still a grand variety in all respects.
 Lippincott, Mrs. Craige. Second early; large rich yellow.
 Madeira, Mrs. L. C. Superseded.
 Magee, Mrs. Geo. A very distinct exhibition flower.
 Magenta Queen. Simply awful; Mathews may like it.
 Marie Louise. Pretty good early sort.
 Mathews, J. S. Good fair bronze.
 Mayflower. Very distinct type.
 Mermaid. For exhibition still useful.
 Minerva. Splendid pot plant; always attracts attention.
 Monarch of Ostrich Plumes. Only fair.
 Morgan, Mrs. Geo. Real good yellow.
 Mutual Friend. Very good in all respects.
 Nemesis. A very distinct anemone.
 Newitt, W. G. Only good for exhibition.
 Niveus. A first-class white.
 Ondine. Not much good.
 Owen, Rob't. Fine Chinese yellow.
 Palmer, Mrs. Potter. Beautiful pink shade of fine form; a good commercial variety.
 Pitcher & Manda. Fine exhibition variety.
 Playfair, Lady. Splendid early pink for commercial use; good keeper and shipper.
 Prass, Eda. Still a grand pink.
 Price, T. C. Exhibition.
 Pullman, Miss Florence. One of the best whites of the season.
 Pullman, Mrs. G. M. Fair yellow.
 Queen, The. Well named, and unsurpassed.
 Rinek, Mrs. H. Fine for exhibition.
 Robinson, Eva. Others better.
 Roslyn. Fine for exhibition.
 Rudd, W. N. Best of the elk's horn type.
 Sautel's White. No good.
 Seguisiana. Splendid for cut flowers and exhibition; golden bronze.
 Seward, Wm. No good.
 Shawmut. Fine exhibition yellow; very large.
 Shrimpton, John. An early Cullingfordi.
 Smith, Col. W. B. Grand golden bronze for general use.
 Smith, Pres. W. R. Fine color and free growth.
 Spartel. Out of date.
 Spaulding, Ada. A useful sort for cutting.
 Starin, Mrs. J. H. Not valuable.
 Sunderbruch, H. L. A large beautiful yellow that has proved generally satisfactory.
 Temptation. Doesn't amount to much.
 Thompson, Mrs. F. For exhibition.
 Triomphe de St. Laurent. A glorious rich yellow.
 Vaughan, J. C. Distinct, but not useful.
 Violet Rose. Exhibition.
 Vivian-Morel. Strictly first-class.
 West, Mrs. Geo. Others better.
 Whilldin, Mrs. J. G. Still useful as an early yellow, when healthy.
 Whirlwind. An anemone without special value.
 White, J. H. Pretty medium size white.
 Widener, H. E. All right when well done.
 Wolcott, Mrs. E. O. Out of date.
 Wynne, Rose. An exhibition variety of peculiar effect.

Much Wisdom in Few Words.

Exhibitors and judges: Keep still and saw wood. This is my experience, and I have entered in both classes. G. P. R.

Philadelphia.

The Pennsylvania Horticultural Society's chrysanthemum show opened under most favorable auspices on Tuesday, November 6, at 2 p. m. All the previous day it had rained hard and was very blustery as well which interfered to a great extent with the hauling of plants. Large specimen chrysanthemums are difficult to move in the best of weather and the growers who attempted to bring their plants in on Monday had a very trying time, and many of their best specimens were badly damaged. Early on Tuesday plants came in so fast that it seemed as if the committee of arrangements would never get things straightened out in time for the opening. At 10 a. m. the floor of the Academy was covered with groups of plants seemingly placed anywhere, but by noon things began to take on a more orderly appearance, and finally at the advertised time for the opening the exhibition was ready for the public.

Hugh Graham and John Westcott had charge of the decorations, which were on quite an elaborate scale. Mr. Westcott had the main vestibule and lower lobby, and Mr. Graham arranged the interior, decorating the front of the balcony and family circle, the boxes and the sides of the stage. He also erected a very handsome pagoda in the center for the orchestra. This was covered with laurel and oak branches; out of this projected long bamboo rods on which were strung lanterns. The whole had a very pleasing effect. The front of the galleries were draped with different colored cheese cloth and at intervals were large plaques of autumn leaves and laurel branches, each of which supported bamboo poles and lanterns. The whole effect was fairylike. The stage was set appropriately with a tropical scene and fringed with palms and other foliage plants, among which were some very fine specimens of ferns and selaginellas from the Caldwin conservatories, through Mr. Joyce. John Whitaker, gardener to Mr. R. W. Downing, of Wallingford, had on the opposite side of the stage a magnificent exhibit of ferns in pans and pots; they were very large, one specimen of *Adiantum cuneatum* being almost four feet in diameter, and several others were almost equal in size. Mr. Chester Davis exhibited a few very choice decorative plants among which *Phyllotanium Lindenii* and *Sarracenia Drummondii* were beautiful specimens. Robert Craig arranged about the exhibition a large lot of caladiums, well grown plants, and a number of *Phrynium variegatum*. These were placed along lines of chrysanthemum pots and added much to the decorative effect.

John Westcott trimmed up the vestibule very nicely with palms, spruce trees and laurel, and also decorated the lobby with similar plants. A fine group of palms was also placed by him on the left of the stage.

The chrysanthemum plants were not up to the standard of previous years; very few of them would have been winners last season; they seemed in most cases to have been drawn too much, and being staked out to their full length the flowers seemed very few for the size of the plants, while the stakes were painfully apparent. These specimens were arranged next to the parquet circle, circling the outer edge of the main hall, and one exhibit occupied the left of the stage. Gordon Smirl's ten plants, which took first premium, consisted of the following: Minnie Wanamaker, Good Gracious, Frank Thompson, President Harrison, Ada Leroy, Mrs. R. Craig, Gettysburg, Vivian-Morel, Col.



Scale
one foot.

NEW CHRYSANTHEMUM MRS. W. H. RAND, AS SHOWN AT CHICAGO.

W. B. Smith, and Louis Boehmer. Emil Leiker exhibited ten good varieties which were awarded second prize.

Other specimen plants were arranged in the front vestibule. Among these latter there were some fine specimens. Quite a number of plants grown to single stems were to be seen and more of these should be encouraged, as they invariably are fine flowers each and remain fresh during the entire show. Mr. C. W. Cox had a number of fine plants of this character, which were well done and attracted considerable attention. Mr. C. W. Cox and Pennock Brothers showed some fine window boxes of growing chrysanthemums which were much better than shown in previous years.

What was deficient in the plants, however, was more than made up in the display of cut blooms, which were unusually fine. We doubt if such a collection was ever gotten together in this country before. The small entries occupied two long wide tables in the center of the stage while the large vases containing twenty-five to fifty blooms were placed around the music pavilion in the center of the hall, and in a large group among low foliage plant near the pavilion. In this group were also placed the two large vases entered for the inter-city contest and it goes without saying that they attracted a great deal of attention. Three other cities had entered but did not send their exhibits.

On Thursday, in order to freshen up the exhibits the Philadelphia Florists' Club placed on exhibition a vase containing one hundred blooms and they were much admired.

Mr. E. G. Hill, of Richmond, Ind., deserves a great deal of credit for his magnificent collection of blooms, bringing them as he did such a distance; they arrived in splendid condition and added much to the exhibition.

Probably the most prominent feature of the show was the large vases of 25 and 50 of one kind. There was the Queen, Mrs. Craig Lippincott, Eugene Daille-douze and others which made a most beautiful display and crowds hovered

about these vases at all times. More of these exhibits, to the exclusion of plants, would make the show more attractive. The only drawback is their liability to wilt, but if properly cared for at night and the foliage kept constantly sprinkled they could, with a few additions, be kept presentable during the entire show. At all exhibitions of this character a special committee should have this matter in charge and be ready when the show closes for the night to see that the hall is made as cool as is necessary and that all flowers are sprinkled and covered up from drafts.

The vases arranged on the tables were too high by at least one foot and perhaps 18 inches. The ordinary high vase that contains these flowers should not be raised above one foot from the floor, as the flowers are much handsomer when looked down upon than when on a level with the eye.

The special feature of the show was the new chrysanthemum Philadelphia. It was on everybody's tongue: "Oh, how beautiful," "I never saw anything so handsome," etc., etc. Owing to all the light being artificial the beautiful lemon tint peculiar to this variety was missing, yet still the people were attracted by its shape and it was invariably pointed out as the handsomest on exhibition.

A seedling white raised by Thos. Monahan, and exhibited by Mr. Spaulding, of Orange, was its nearest competitor. This, while a very fine flower, was not in it with Philadelphia. The Mayor of the city thought so much of it that he came to the show and christened the flower, saying as he took a bunch of them from Mr. John Burton, vice-president of the chrysanthemum society, "That while it was a remarkable flower it would never have cause to be any thing but proud of its name."

Between the tables of chrysanthemums and the pagoda were two large round tables covered with vases of fine roses. These collections attracted a great deal of attention as they always do. Out in the front corridor were arranged the car



Scale
one foot.

NEW CHRYSANTHEMUM MRS. H. W. EMERSON, AS SHOWN AT CHICAGO.

nations and a very fine lot they were. There certainly has been a great improvement in this flower the past few years. This collection is a very fine one and much better than ever the society has had before.

In one of the smaller rooms off the corridor were two exhibits of orchids, one of commercial varieties suitable for forcing for cut flowers, by Edwin Lonsdale, and the other, quite a large collection, by Pitcher & Manda, for private conservatories. These latter received the first prize, \$50, while Mr. Lonsdale was awarded a special prize of same amount.

The attendance is much better than last year, the first day being quite an advance on the attendance last year, while the second is away ahead. Everybody is delighted with their visit and the officers of the society are correspondingly elated.

VEGETABLE EXHIBITION.

Special efforts were made in this department to have a fine display. The society offered extra inducements to market gardeners and others, and the result fully justifies the attempt to make this much neglected section more interesting. The ladies especially were pleased with the grand display of good things for the table. The big pumpkins, cabbages, mangels, potatoes, etc., excited their wonder and admiration to a remarkable degree and this section of the show was crowded nearly all the time. Too much praise cannot be given to the firm of Henry A. Dreer for their efforts to make this department successful. They not only offered handsome cash prizes but took an active interest in inducing growers to come forward and exhibit. They also took pains to help in staging, etc., and contributed largely to the gratifying success.

The first prize for the general collection was carried off by R. C. Kaighn, Camden,

N. J., with a magnificent collection of 63 varieties. A large pumpkin of the Slater's mammoth variety weighing 150 pounds, attracted considerable attention, as also the big cabbages and specimens of that rarely seen vegetable, cardoon, kohlrabi, broccoli, and King Humbert strawberry tomato. The second in the collections was awarded to John M., a brother of R. C. Kaighn, for a smaller lot, but equally fine and containing some unusual sorts such as the wild yam, Martynias, Ram's Horn bean in addition to the regular display of cabbages, cauliflower, beets, radishes etc. There was no third prize, but a collection from C. W. Cox, gardener to Clay Kemble, Esq., well deserved that honor. Although the extent of the collection was not so great the quality of the exhibit was superior to anything else shown. Other exhibitions in this section (collections) were Henry Diehle, gardener to Mrs. Steele, Germantown; and John McCleary, gardener to Wm. Weightman, Germantown. Julius Breast, gardener to Jay Cooke, Jr., got first for hothouse tomatoes with a fine plate of "Lorillard." Julius Rieger got the prize for mushrooms. Mrs. M. D. Henzey showed some fruits of the osage orange, quite a novelty hereabouts. The Dreer prizes were well contested.

NOTES.

The competition for the "Blanc Prize" was very keen. There were many entries in this contest, but it finally simmered down to two, the famous "Philadelphia" and a large white, unnamed, raised by Wm. Jamison and grown by Henry B. Surman. In the estimation of some the latter variety should have received the prize. It is a larger flower than the "Philadelphia," and fuller. The "Philadelphia," however, has the advantage in being an entirely new type, both in

form and delicate coloring. Another very fine variety in competition for this prize was one labeled "Olympus," exhibited by John N. May. This was also a large, massive flower, but with less substance than its competitors.

In the competition for the "Wohlruh Prize," which is offered by Chas. Dissel, Esq., for the best twelve blooms for a variety not yet disseminated, there were several entries. Hugh Graham was the successful competitor with his seedling "Mrs. H. L. Romig." It is beautifully incurved in form, full to the center, and will evidently make a good cut flower, as well as an exhibition variety, though rather undersized as compared with some of the leading popular varieties of to-day. In this class a variety that reminded us very much of Mrs. L. C. Madeira was exhibited by E. G. Hill & Co., but it has a stouter stem, and under the artificial light in the Academy of Music it appeared to be a deeper shade of yellow. There was none of that variety in the building with which to compare it, or we could tell better wherein the two varieties differ. One named "Colosseum" in this class also created a very favorable impression. It was large in form and pure white in color, similar to Domination, but the petals are broader, and the flowers, we think, are much larger than the older sort. Exhibited by J. N. May.

The "Sugar Loaf Prize" of \$25, offered by Chas. W. Trotter, Esq., for the best seedling never before shown, was awarded to Robert Carey, gardener to T. C. Price, Esq., Chestnut Hill, for a variety that under the poor light seemed to be tinted with blush. It was of a fair size as grown for cut flowers, a pretty flower, though a trifle undersized as grown on the plant.

Among the novelties of last year Eugene Dailedouze stood out well to the front. So also did Inter-Ocean, the delicate blush pink variety of the Vivian-Morel type. Pitcher and Manda, one of last year's novelties, was of very good form, and the yellow in the center made it very distinct; it is an excellent variety in collections, but whether it will be a favorite among commercial cut flowers remains to be seen. A variety labeled Autumn was a beautiful old-gold colored bloom. It resembles somewhat Wm. H. Lincoln in form, but as seen here was a better flower, though not of course the same color, being a bronze, whereas Lincoln is a good pretty yellow. Chas. Davis, a tawny colored sport from Vivian-Morel, is a good one to make variety in collections. It showed up in good form. Challenge was not seen very frequently. In one collection it was noticed as hardly up to its form of last year as seen at Chicago. One or two flowers of Shawmut were very large and graceful, light yellow in color. This is a variety new to me. The Queen sustained the good reputation she made last year. Mayflower we think will be some of the winning collections in the next year or two. Among the pinks Erminilda and Katherine Leech, both new ones of last year, were very favorably commented upon by those who are interested in the growing of cut flowers for the market. L.

Pittsburg.

The great display of chrysanthemums at the Phipps conservatories in Schenley

Park has attracted immense crowds. It is estimated that 50,000 persons viewed the display on November 4, the opening day. After completing the arrangement of the display Superintendent Bennett went to Chicago to act as one of the judges of the exhibition in that city.

Boston.

"Far ahead of last year" might be termed a stereotyped phrase as applied to chrysanthemum shows. It is true, however, so far as the Boston exhibition of 1894 is concerned. Just when the limit of improvement will be reached and chrysanthemums will have attained their highest development no one can guess, certainly there are no indications in that direction yet. These introductory remarks are intended to apply to blooms and not to trained plants. It is not claimed that the best plants on exhibition this year are any better than the best of those last year, but there are more of them this year that are entitled to the distinction.

The big premiums for 12 specimen plants, first, second and third were awarded to Walter Hunnewell, N. T. Kidder and John T. Gardner in the order as recorded, Mr. Kidder taking both second and third. The groups arranged with foliage plants for effect ranked Bussey Institution first, John L. Gardner second, and William H. Elliott third. In the classes of plants grown to one stem and bloom Thomas Dolliber, Dr. C. G. Weld, W. F. Gregory and Mrs. I. S. Farlow were competitors, in addition to the exhibitors already named. The plants from Wm. H. Elliott and Wm. Edgar were bushy plants grown low and compact for store trade.

The lower hall was devoted entirely to the cut blooms, and no description can convey an adequate idea of the splendid effect. The enormous vases which first met the visitor's eye on entering the hall stood with their contents seven and eight feet high, the stems on most of the blooms being four and five feet long. The finest of these came from James Brydon, and were grand, not only in flower but in stem and foliage as well. The vases of ten blooms each, which were arranged along the front of the stage were mainly from Waban Rose Conservatories. Here again flowers, stems and foliage were superlatively grand, such varieties as Eugene Dailledouze, Inter-Ocean, Mutual Friend, Robert McInnis, Mrs. Jerome Jones, Vivian-Morel, Mrs. Phipps, Major Bonnaffon, Harry Baisley and H. A. Sunderbruch being shown as never before. Clarence, from J. Eaton, Jr. was another variety that showed up finely in this class. All individual blooms were shown with stems fifteen to eighteen inches long in separate vases, no display boards being used. The advance in quality in this section was very pronounced. James Brydon, W. Slack, Jos. H. White, C. V. Whitten, Mrs. A. D. Wood, E. Converse and Jas. Nicol were the principal exhibitors in these classes. W. Slack is a new contributor, and his blooms ranked among the best, giving some of the old standbys a close rub. He was the only exhibitor of anemone flowered varieties, but it was a fine set, and was much admired. Mrs. B. P. Cheney was another new comer. Her collection contained many kinds seldom seen, but exceedingly well grown, and it was a pity that they were shown without names. F. B. Hayes, W. F. Gregory, Wm. Edgar and Wm. Nicholson were also among the contributors.

In the groups of twelve best named

varieties, introductions of the current year, T. D. Hatfield, gardener to Walter Hunnewell, was first. Noticeable among the varieties shown by him were Prairie Rose, Wanlass, A. H. Fewkes, and Frank Hatfield, second prize in this section was awarded to Pitcher & Manda, among whose best varieties were Mrs. E. O. Walcott, Mrs. J. H. Starin and Mrs. Chas. Lanier. What constitutes an introduction of the current year was a difficult question for the committee, and it would be a good idea for the National Chrysanthemum Society to specify clearly whether an introduction exclusively in England or France last year would debar a variety from competing in this class in America this year.

Well known varieties which were noted as having made special developments in quality of bloom as compared with previous years were Marguerite Jeffords, Pitcher & Manda, Golden Gate, Shenandoah, H. F. Spaulding, President W. R. Smith, Mutual Friend, Mrs. A. J. Drexel, and Vesuvius. Less well known but showing most promising advance in good points were the following varieties: Florence Pullman, a white from L. W. Goodell, Ox Blood, an unequalled red from Mrs. E. M. Gill, a deep pink Ada Spaulding from Norris F. Comley, which was certificated last year, and Clarence, from J. Eaton, Jr. which received first prize two years ago and is probably the brightest of all the scarlet and gold incurved section. There were only a couple of good blooms of Challenge in the hall, and poor Golden Wedding showed unmistakable signs of going down hill. Among the varieties which seemed to take highest rank with visitors were Eugene Dailledouze, Major Bonnaffon, The Queen, Niveus, Mrs. Jerome Jones, and Inter-Ocean.

The awards for seedlings never disseminated were as follows: Best pink to P. Melia, for unnamed flower like Violet Rose, lighter shade of pink, and nearly a self color. Best white to Hugh Graham for Philadelphia, a fine Japanese incurved which has all the points of a good keeper. Best yellow to Pitcher & Manda for Mrs. W. A. Bryant, a rich deep color with unique arrangement of petals. Best incurved to T. D. Hatfield for Mrs. T. D. Hatfield, yellow in way of Mons. Roux. Complimentary notices were given to the following seedlings; to C. S. Goddard for seedling of 1892; to H. A. Gane for Mrs. Geo. A. Gane, white and Mrs. Louise Chard, pink; to Geo. Hollis for Golden Rule, fine yellow, to J. Eaton, Jr. for Penikese, a pink feathery petalled sort; to P. Melia for a pink of Elksborn type, and to Kenneth Finlayson for a pretty apricot colored sport from L. Boehmer.

Some fine collections of carnations were shown by Mann Bros., Fisher & Aird, R. T. Lombard and Wm. Nicholson. Complimentary notices were given to two whites from Sewall Fisher, Market Crystal and Number 162. White seedlings were also shown by Fisher & Aird and Wm. Nicholson.

The new hybrid tea rose Belle Siebrecht was shown in good form by Siebrecht & Wadley and received a first-class certificate. The attendance at the exhibition was the largest on record.

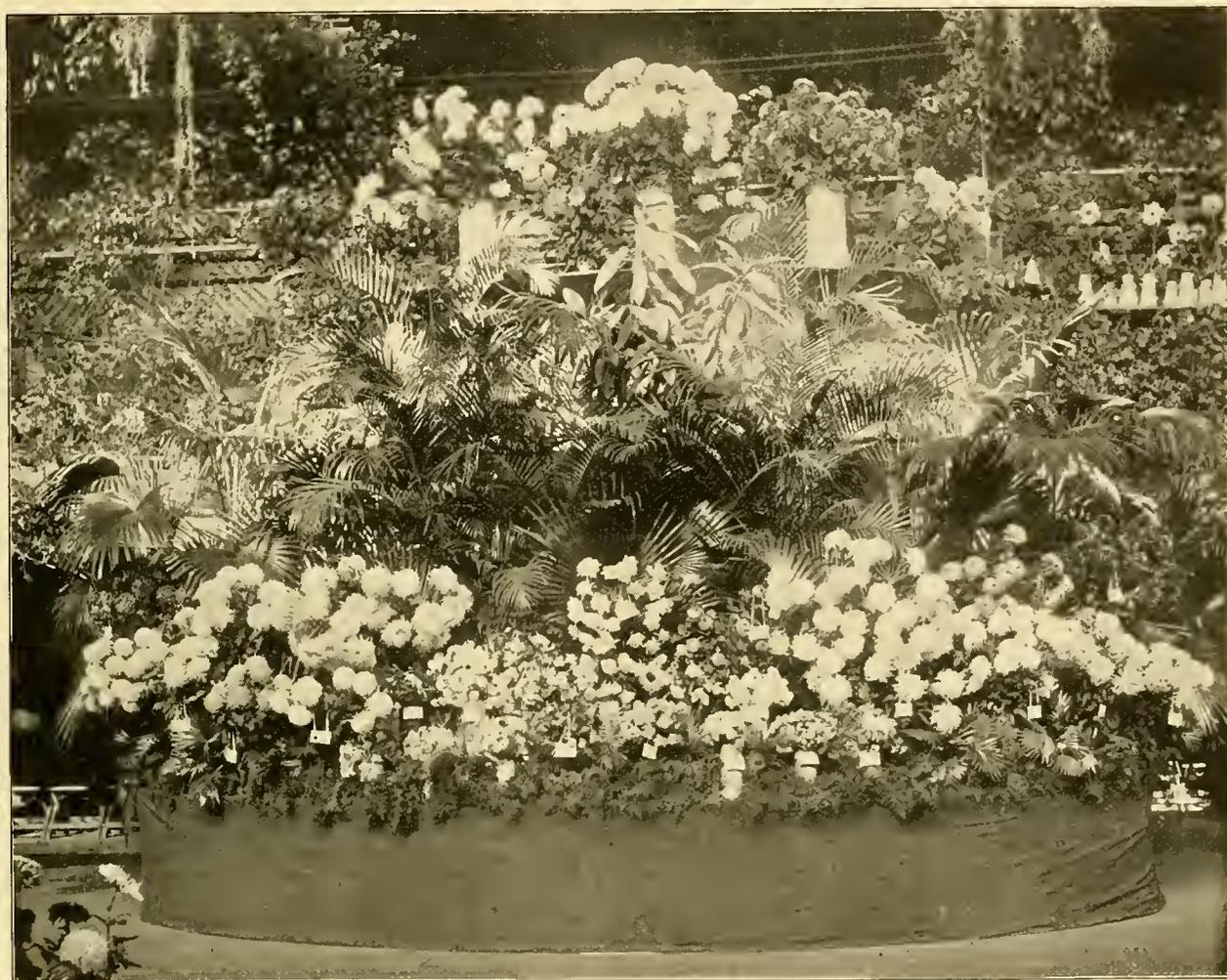
The Philadelphia Supper.

The annual chrysanthemum supper was held at the Hotel Metropole, across the street from the Academy, and was attended by some sixty florists and visitors. The dining room was very attractive; in the center of the large table was a huge basket of chrysanthemums,

on either side of which stood a tall vase. In one was a lot of Major Bonnaffon and in the other a number of blooms of Philadelphia. Among the guests were Ben Dorrance of Dorranceton, Pa., John Taylor of Bayside, Major Bonnaffon of Philadelphia, A. M. Herr, H. Schroyer, Walter Howard and Mr. Rohrer of Lancaster, J. L. Dillon of Bloomsburg, A. Dimmock of England, George Fancourt, J. H. Troy and Mr. Wallace of the *Florists' Exchange*. W. R. Smith of Washington was in town, but not able to be present. Mr. C. H. Allen, Ernst Asmus, John N. May, E. Dailledouze of New York, and Mr. Hill, all at the show, had to leave for home before the time set for the dinner, and their presence was much missed.

After an excellent menu had been served, which was interrupted several times by the electric lights going out, caused as was said by some by the great depression of the Democrats, Mr. Lonsdale rapped for order, and welcomed the visitors in a neat speech and then appointed Mr. Craig toastmaster. Mr. Craig said he admired the easy grace of Mr. Lonsdale, who could throw the responsibility of the occasion on him in such an easy and graceful manner. He said he was sleepy, and had not slept for two nights. He went to Baltimore on Monday and he was treated so well that he could not find time to sleep, and when he got to Philadelphia the next day, listening to the returns kept him awake another night, and he thought he would rather take a rest than accept such responsibility. He spoke of the grand array of blooms on exhibition and was sorry that the plants were not up to the standard of former years. He said the society owed a great deal to James Verner, and hoped another such grower with the same facilities would spring up before long. But he was glad to say that the character of flowers on exhibition more than made up for the lack of fine plants. He now toasted the chrysanthemum and called on Mr. Harris to respond. He said Mr. Harris was the father of the chrysanthemum and a comedian of note. Mr. Harris said he was not in it this year, as the young fellows were setting a very fast pace; he would not give up, however, but would give them all a tussle yet. He said Mr. Craig had called him first as he wanted to clear the board of the rubbish, and then bring on his orators. Mr. McCall now sang a ballad, and "Philadelphia," the new variety, was toasted. Mr. Graham replied in a few words, thanking everybody for the interest in the new flower and said they were not going to stop until they had one of the same form and a good pink; then they wanted a blue, and a white with red hair was a possibility. Major Bonnaffon was then called and made a very funny speech, saying he raised the flower that bore his name and took it up and gave it to a grower who exhibited it at the World's Fair and now its fame was world wide. He read some poetry he had sent him and said he had a lot more, which he would read later.

George Anderson was asked to tell of the chrysanthemum disease, as he had been heard to say that nothing smaller than a cow could hurt the weeds. But George would not rise, and Dr. Goebel, who has been making a study of this blight, said that cross sections of the leaves showed them to be filled with living organisms, which magnified looked like larvæ, the results of eggs laid by a very small fly. He intends to study the subject further. Mr. McCall now sang "Brown October Ale," which was very well received. Mr. Schroyer of Lancaster



GENERAL DISPLAY OF E. WIENHOEBER & CO., NOT FOR COMPETITION, AT CHICAGO.

was proud of Lancaster, of the National Society and of the Philadelphia Florist Club. Messrs. A. M. Herr and J. L. Dillon made short speeches, and Mr. B. Dorrance made a characteristic address; he was not a friend of the chrysanthemum, he said, but if these shows raised enthusiasm have the shows by all means and boom business thereby. Have a rose show and boom the rose, and a violet show and boom the violet. Stick close to the press and educate the people up to the necessity of having flowers, and he wound up by reciting a Scotch selection. Mr. Burton, Mr. Dimmock and Mr. Troy made short speeches, Mr. John Walker sang an original song, and Mr. Wallace of the *Florists' Exchange* sang "I love the bonnie lassies," both of which were much appreciated. Mr. John R. Ashburne of Vineland played selections on the organ at intervals during the dinner, and wound up the entertainment, after Mr. Craig had been persuaded to sing "Father O'Flynn," by playing "Auld Lang Syne," in which the company joined with a will.

Indianapolis.

If good weather and good spirits will make an exhibition a success this year's show can not fail to be one. It is unquestionably as much an improvement over the last one as that was over 1892. While the plants are not as they should

be the cut blooms are uniformly excellent. Every display has its merits.

At the entrance is an arch of wild smilax and Florida moss, flanked at either side by a natural looking stone wall. Directly inside was a bank of tropical plants. The hall proper can be described as a perfect bower of evergreens, Florida moss, holly and other decorative material. The gallery railing was a study in decorative art, the blending of colors and the graceful looping being very well done. The stage decoration had for its center the word "Welcome" in red cape flowers, and on either side, in addition to bunting, wreathing, etc., a large pine illuminated with many colored incandescent lights.

The orchid display was a very creditable one, Mr. H. L. Sunderbruch of Cincinnati, who made the display, staging it in very careful style. Among them were *Cattleya Percivaliana*, *cyripediums*, *Vanda cœrulea*, *odontoglossums*, *Lælia Perrinii*, *Dendrobium Phalænopsis*. A few *Harrisii* lilies, *Tritoma uvaria*, *anthuriums* and *nepenthes* finished up this display.

The Huntington Seed Co. made a unique display with foliage plants and a rustic bridge composed of seeds and bulbs, the water being simulated by several thousand Chinese lily bulbs.

In the southeast corner Bertermann Bros. made an excellent display of decorative plants and jardinières, also a mantel display.

Along the sides of the hall a massive background of evergreens showed off the beautiful specimen cut blooms to advantage. The cut flower booth was especially attractive on account of the very choice selection of flowers now called for, instead of the cheaper grades formerly sold.

In front of the stage and also on it Anthony Wiegand made one of the best displays of tropical decorative plants ever seen in this hall. In another corner was a very neat cactus display, which attracted many admirers. Several aquariums were also an attraction to the little folks.

In cut flower premiums Hill & Co., Richmond, Ind., received first for 25 varieties, 3 blooms of each, special for 15 varieties of 1894, vase of 50 yellow (*E. Dailedouze*), first for 15 varieties, first for 20 blooms, all colors, first for hairy varieties, and first for 50 blooms, any variety. Highland Floral Co., Dayton, O., received a special for the largest bloom in the hall. Fred Dorner & Son received special for 15 blooms, first for 20 blooms yellow. R. Witterstaetter, Sedamsville, O., received first for 20 blooms, pink. Nathan Smith & Son, Adrian, Mich., first for 20 blooms, white, *The Queen*.

In the seedling classes Henry Rieman received first for white, yellow and any other color. Hugh Graham received a certificate of merit for "Philadelphia,"

and certificates were also awarded to Hill & Co. and Dorner & Son.

In the plant classes Henry Rieman was first for 3 plants white, 3 plants yellow, 3 plants pink, 3 plants any other color, specimen white, yellow, pink and red, first for 50 plants. Bertermann Bros. received first for 50 plants white, 50 plants red. Hill & Co. received first for 50 plants yellow, John Hartje first for 50 plants pink.

The rose and carnation exhibits were very good. In the latter Dorner & Son made a very fine display. Henry Michel, Marion, Ind., had a group of extra good seedlings, as well as older varieties. John Hartje was another exhibitor of seedlings. J. S. Stuart, Anderson, Ind., and Bertermann Bros. were also exhibitors of carnations. R. Witterstaetter showed Adelaide Kresken in fine condition. Premiums were awarded as follows: John Hartje first for 50 white, with a seedling; 50 pink, Bertermann Bros., with Daybreak; special for introduction of 1894, W. W. Coles, with Adelaide Kresken. Special to Dorner & Son for E. A. Wood. The last named firm received certificates for Bridesmaid, a pink, Mrs. C. H. Duhme, pink. Henry Michel received certificate for No. 32, yellow.

In roses good displays were made by J. S. Stuart, Anderson, Ind., estate of M. A. Hunt, Nanz & Neuner, Louisville, Ky., Henry Rieman and W. W. Coles, the prizes being pretty well divided among them. H. Rieman made a good display of cyclamen plants. The Anchorage Rose Co., Anchorage, Ky., made a rose display, not for competition.

The special prize for market plants went to Ernest Huckreide. Among the floral arrangements shown Bertermann Bros. received a special for a triumphal arch, and Anthony Wiegand special for a floral ship. There were good displays of tropical plants in jardinières, Bertermann Bros. taking first. Rieman had an attractive table of adiantum and other foliage plants, with some *Gloriosum* blooms.

W. B.

Pittsfield, Mass.

It was a grand exhibition that the Gardeners' and Florists' Club of Berkshire County, Mass., put up, far ahead of any former effort here, and in some respects, notably in fine palms and decorative plants, it would be hard to beat anywhere. The sudden appearance of freezing weather was most unfortunate, for it caused great difficulty in handling the plants and kept the attendance on the first day down pretty low, but the last days of the week are expected to make the average good.

In chrysanthemum plants the trained specimens from A. P. Meredith, Thos. T. Connors, Edw. Dolby and others were very fine, a grand specimen of A. G. Ramsey from Mr. Meredith being the best plant in the hall. Groups for effect and groups of plants grown to single stem and flower from the same exhibitors, also from J. F. Huss, Geo. W. Burbank, Rob't Johnson and Neil Cobban, were also most creditable. Tall standards from Mr. Meredith, Mr. Connors and Mr. Dolby were as good as these unnatural arrangements are to be seen elsewhere.

The cut blooms were remarkably good. The best flower in the show was Mr. Dolby's Mrs. G. H. Morgan, a flower that would stand in the first rank anywhere. Mr. Dolby excelled in all the cut flower classes, Ivory, Vivian-Morel, Mrs. Bayard Cutting, M. B. Spaulding, Mrs. L. C. Madeira, Mrs. Jerome Jones

and other reigning favorites being all shown in best form. A. H. Wingett showed Mrs. Craig Lippincott, Ivory, Cullingfordi, Charles Davis among his best blooms; A. P. Meredith, fine Eda Prass, Mrs. Bayard Cutting, Wm. Simpson, etc.; and Thos. T. Connors and C. R. Russell also staged prize winning blooms. From Pitcher & Manda came an interesting exhibit of novelties, among which were some of their best seedlings of 1894.

The palms and decorative stove plants were a prominent feature of the show, and added greatly to its attractiveness. Mr. Wm. Griffin showed a superb group of foliage plants artistically arranged and finished. From A. P. Meredith came groups of handsome crotons, dracaenas and anthuriums, one of the latter being a large specimen in bloom of his seedling *Cuttingianum*. His ferns were as usual very fine. Robert Johnson's ferns were an exhibition in themselves. There were in his collection enormous specimens of *Microlepia hirta cristata* and *Cybotium regale* and *Scheddi*. A *latania* having a spread of nearly twenty feet towered over all.

The most admired plant in the hall in the experts' eye was a noble specimen of *Adiantum Williamsii*, said to be the finest in the country. Mr. Dolby's crotons and other foliage plants were likewise fine, as also were Mr. Huss' crotons, dracaenas, etc. W. A. Manda contributed a group of novelties, including a set of new dracaenas, *Pandanus amaryllidifolia* and other recent introductions. Neal L. Cobban also showed some grand palms, cycads and crotons. There were two good collections of orchids shown by A. P. Meredith and Wm. Griffin.

Carnations and roses in all popular varieties were staged by J. F. Huss, N. L. Cobban, F. I. Drake, Edw. Dolby, A. H. Wingett, C. M. Atkinson and T. T. Connors. The local florists, Messrs. John White, C. M. Atkinson and G. H. Hansford all contributed promiscuous stock of excellent quality, but the private gardeners will always be the heaviest exhibitors in a community like that which Berkshire County boasts.

The new hybrid tea rose *Belle Siebrecht* was exhibited in good form by Siebrecht & Wadley of New York.

Music was furnished during the exhibition by Clark's Orchestra.

St. Louis.

At the St. Louis show premiums were awarded in the plant classes as follows: Best 3 plants, white, in 3 sorts—1st John Armsby, 2nd F. J. Fillmore, 3d C. Young & Sons Co. Best 3 plants, yellow, in 3 sorts—1st C. Young & Sons Co., 2nd John Armsby, 3d A. Meyer. Best 3 plants, pink, in 3 sorts—1st Wm. Schray, 2nd C. Young & Sons Co., 3d Julius Koenig. Best 3 plants, any color, in 3 sorts—1st C. Young & Sons Co., 2nd John Armsby, 3d A. Meyer. Best single specimen, white—1st C. Young & Sons Co., 2nd F. J. Fillmore, 3d John Armsby. Best single specimen, yellow—1st John Armsby, 2nd C. Young & Sons Co., 3d A. Meyer. Best single specimen, pink—1st Wm. Schray, 2nd C. Young & Sons Co., 3d Charles Connor. Best single specimen, any color—1st C. Young & Sons Co., 2nd Wm. Schray, 3d A. Meyer.

Standards: Best single specimen plant, white—1st John Armsby, 2nd Julius Koenig, 3d A. Meyer. Best single specimen plant, yellow—1st John Armsby, 2nd A. Meyer, 3d Charles Connor. Best single specimen, pink—1st Julius Koenig; 2nd A. Meyer, 3d John Armsby. Best

single specimen plant, any color—1st Chas. Connor, 2nd A. Meyer, 3d J. Koenig.

Plants grown for market sales: Best 18 plants, not over 8-inch pots—1st A. Meyer, 2nd Chas. Beyer, 3d Wm. Schray. Grown to one flower, best 50 plants, one or more varieties—1st A. Meyer, 2nd Michel Plant & Bulb Co., 3d Wm. Schray.

In cut flower classes the following awards were given: Best 20 flowers, white, in 4 sorts—1st W. J. & M. S. Vesey, 2nd E. G. Hill & Co., 3d Michel Plant & Bulb Co. Best 20 flowers, yellow, in 4 sorts—1st E. G. Hill & Co., 2nd Michel Plant & Bulb Co., 3d Wm. Schray. Best 20 flowers, pink—1st E. G. Hill & Co., 2nd Wm. Schray, 3d Michel Plant & Bulb Co.

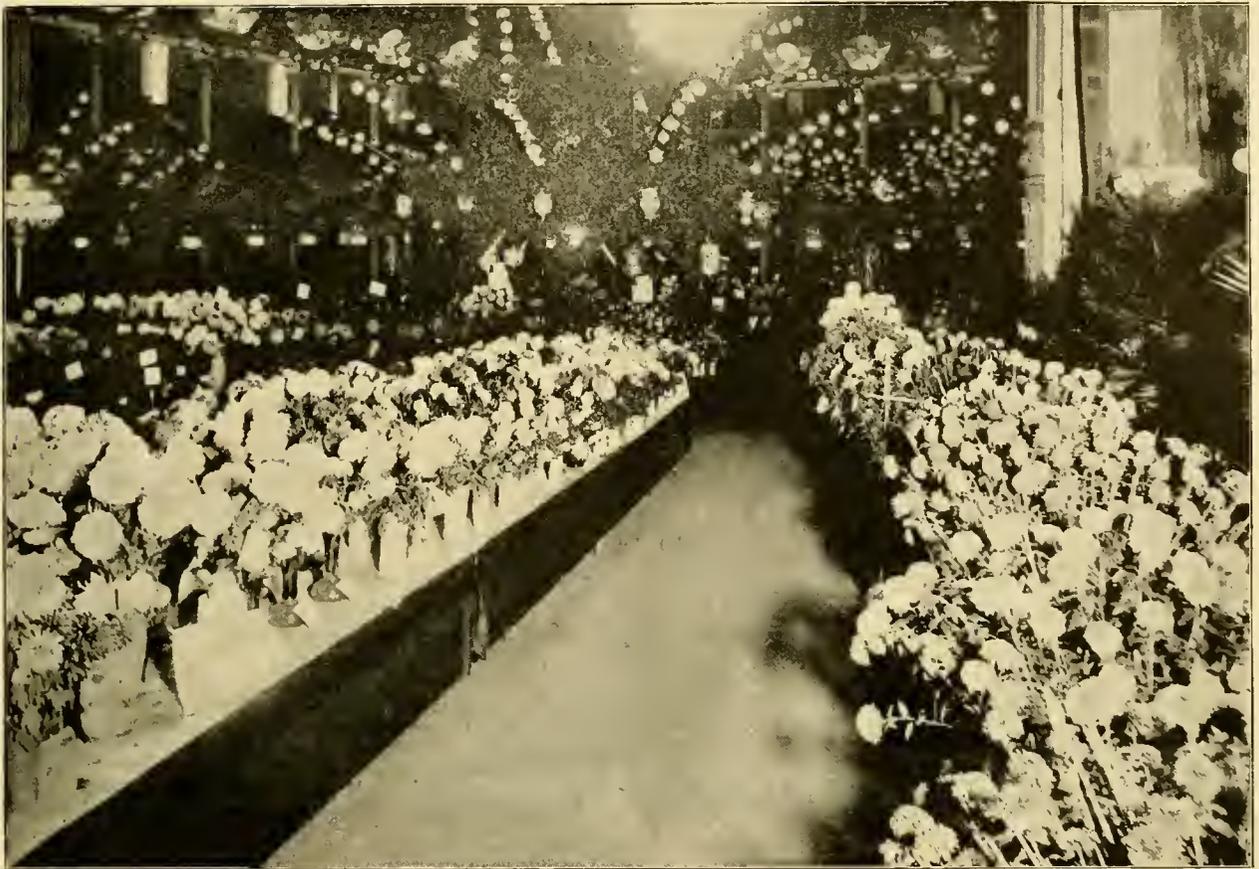
The Shaw premiums were given as follows: For the largest and best collection of named palms, not less than 12 kinds—1st Wm. Schray, 2nd Chas. Beyer. For the largest and best collection of named begonias, not less than 12 sorts—1st Michel Plant & Bulb Co., 2nd Wm. Schray, 3d F. J. Fillmore. For the largest and best collection of named ferns, not less than 12 kinds—1st Michel Plant & Bulb Co., 2nd Julius Koenig, 3d Wm. Schray. For the largest and best collection of named foliage plants other than the preceding, with variegated leaves, not less than 12 kinds—1st Wm. Schray, 2nd Michel Plant & Bulb Co., 3d C. Young & Sons Co. Best collection of 25 blooming plants for house decoration, exclusive of chrysanthemums—1st Wm. Schray, 2nd C. Young & Sons Co., 3d F. J. Fillmore. For the best specimen of *Areca lutescens*—1st A. Waldbart, 2nd C. Young & Sons Co. For the best specimen plant, shown as a centerpiece for table—1st Wm. Schray, 2nd Julius Koenig. For best specimen of *Howea Belmoreana*—1st Wm. Schray, 2nd A. Waldbart. For best specimen of *Howea Forsteriana*—1st John Armsby, 2nd C. Young & Sons Co. For best specimen of *Livistona chinensis*—1st A. Waldbart, 2nd Wm. Schray. For the best specimen of *Pandanus utilis*—1st A. Waldbart, 2nd Wm. Schray. For the best specimen of fern—1st Michel Plant & Bulb Co., 2nd Wm. Schray. For the best specimen of decorative plant other than the above—1st A. Waldbart, 2nd C. Young & Sons Co.

In carnations, for best vase of white, 40 flowers—1st Wm. Schray, 2nd Frank Fillmore, 3d Thos. Carroll. Best vase of pink carnations, 40 flowers—1st Wm. Schray, 2nd C. Young & Sons Co., 3d Thos. Carroll. Best vase of red carnations, 40 flowers—1st Thos. Carroll, 2nd C. Young & Sons Co., 3d A. S. Halsted. Best vase of variegated carnations—1st Thos. E. Carroll. Largest and best collection of cut carnations—1st Frank Fillmore, 2nd Wm. Schray. R. F. T.

Wayne, Pa.

The show opened here October 30, and was a success in every respect. The chrysanthemums, both plants and cut flowers, were excellent. The arrangement of the hall, under the charge of Jno. G. Gardiner, was most attractive. The judges were Thos. Cartledge, David Rust and G. C. Watson, all of Philadelphia.

Among professional exhibitors John Curwen, Jr., of Villa Nova, and H. G. Standen of Haverford displayed chrysanthemums, both flowers and plants. John Welsh Young of Germantown showed cut blooms of chrysanthemums. H. A. Dreer made a very large and fine display of dahlias, phlox and cannas, the latter including some six varieties. In the professional classes Mr. Curwen and Mr. Stan-



A CORNER AT THE PHILADELPHIA SHOW.

den were the leading prize winners. Mr. Standen took first for a seedling named Mrs. J. E. Gillingham.

Among amateur exhibitors or private gardeners prizes were taken by Gordon Smirl, Wm. Taylor, O. Paul, J. E. Krayner and J. F. Sinnott.

Notes of the Newer Chrysanthemums Seen at the Chicago Show.

The two grand yellows, Major Bonnaffon and Eugene Dailedouze, are in splendid form, and a glorious triumph for the golden flower. H. L. Sunderbruch is shown in fine form, large graceful blooms. Vivian-Morel is grandly represented in a vase of fifty magnificent blooms. Mrs. Potter Palmer is a shapely flower of a clear even shade of pink or light rose; appears to be a good thing for commercial use. Lady Playfair is a good thing, a large incurved flower, light pink with lavender shading; it will prove of decided commercial value, being early and of good substance, also a good shipper.

Richard Dean is a desirable pink for commercial use, bright fresh color, and plant of good habit. Marian Henderson appears to be a cross between *Gloriosum* and Mrs. Whilldin; I regard it a good thing, bright rich yellow, with a strong stem; this and Yellow Queen are specially valuable for early.

Minerva is an ideal yellow for a pot plant on account of its dwarf compact habit; it is not a cut flower sort. Amoor, an excellent bronze, belongs to this class,

as does "pink" Constellation. Mrs. Magee is a distinct kind for exhibition, of a pretty shade of lavender pink but otherwise too stiff in general appearance. I believe it is the most "solid" flower extant. Mrs. C. Harman Payne is a bright rose color when fully expanded, and makes a good pot plant, sturdy compact habit, giving a large exhibition flower. Joey Hill is a large red bronze adapted for exhibition only. Seguisiana must make a desirable addition to the cut flower class; bronze orange, reflexed and twisted blooms, medium size. Mrs. Robt. Pitcairn is a spot from Mermaid, a bronzy buff, for exhibition flowers.

Shawmut is a magnified *Gloriosum*, always attracts attention for its great size. Mutual Friend is well named; everybody likes it; very distinct shape. Marie Louise takes on account of its earliness. Miss Florence Pullman is an A1 white, grand. Mlle. Therese Rey is a valuable exhibition white of creamy tint. Mayflower is a white of exceedingly graceful effect on account of its outer petals extending beyond the general surface of the bloom; it is this peculiarity that makes it distinct from all others. A. H. Fewkes is a big solid yellow "mum"—the so-called yellow Minnie Wana-maker. Inter-Ocean is satisfactory all around, distinct in its pretty tint of white and blush. Silver Cloud is another good one, white and salmon tint. Clinton Chalfant for "second early" is a splendid commercial cut flower. White Boehmer is a good thing and so is the large hairy

pink, Mrs. Higinbotham. Chas. Davis is equal to Vivian-Morel in size, and identical in habit, and when it is fully expanded is a fine tone of salmon buff.

Pitcher & Manda is valuable for exhibition, of good habit the present season. Mrs. Howard Rinek is a big exhibition bloom, deep rose and silver. Georgienne Bramhall, light lemon tint, gives a good large well built bloom; and Triomphe de St. Laurent holds up a splendid rich yellow flower of grand size, on a rather tall stem. John Shrimpton is an earlier and larger Cullingfordi. Fisher's Torch is a maroon red of good size, holding on to its color well and a much better cut flower than the average. Rider Haggard and Nemesis are two very distinct anemones that all should have who grow chrysanthemums.

The late varieties of the newer kinds are not enough fully done to pass upon.

GROVE P. RAWSON.

Chrysanthemum Plants for Store Trade.

Select kinds for pots that make a stocky growth and strong stems. Cuttings should be started about May 1, say potted in 2½-inch pots, and planted out about June 20 in soil that is rich, and not on very low land. Plants should be pinched back as soon as they start to grow, and continuously as growth is made, until August 15. They would need to be lifted about September 15; and potted in about 7-inch pots. It is better to lift and pot plants on a bright sunny

day, and to lose as little time as possible in potting, staking, plunging and watering. They should be potted firmly in the pots and staked with three or four short stakes of willow, birch or some natural wood that won't show, and tied loosely around the outside with strong green thread, and plunged half the depth of the pot in a good sunny exposure, giving plenty of room, no plant touching another.

The soil should be thoroughly soaked, and sprinkled every hour the first few days. The sprinkling should be done less frequently as the plants wilt less, and discontinued altogether when they cease to wilt. I find the best plan for watering the three thousand plants that I handle is to run water pipes into the garden, with plenty of faucets.

Disbudding should be commenced as soon as buds are large enough. Buds on short and weakly shoots are better removed altogether. Plants should be removed to the house in time to keep from frost. Give them plenty of room, just touching each other, air freely and water carefully until plants are in bloom.

All that then remains to be done is to market them, which is the hardest and most important job of all. Size of plants when in bloom should be from one to three feet in diameter, and measure one to two feet above the pot, with foliage down to the pot, or within 6 inches of it for those that lose their foliage most. Plants of this kind should bring from 75 cents to \$1.50 each, at wholesale to the stores. This crop can be followed by lilies or other Easter stock, as your house should be cleaned out by December 1.

Brighton, Mass. WM. H. ELLIOTT.

Qui Pense?

Come boys, let us have just a "drap of the creature;" it is so dry or *wet*, don't you know! The *weather*, really, has little to do with the case—tra-la! The gentleman florist lights a cigar of the brand most conducive to mental exuberance, leans well back in his chair with his pedal extremities well up towards the ceiling—an awfully comfortable position, as you all know—and according to the ancient fable, "He huffs and he puffs, and he blows your house in." He talks a little about deceased politics—"I told you so—Smith was a good fellow, I am sorry he got left, but Jones had more influence, besides a 'bar' to back him up 'so it goes.'"

And then he gets down to business, and it is all 'mum 'mum and extra dry! He talks about 'mums with a very knowing accent—knows all about 'em—he discusses new varieties with a rare flippancy that is charming as it is senseless. All the same this fact confronts you, "mein freunds!" Any chrysanthemum is known only by the way it is grown! The variety that you may condemn is O. K. with another party, and its weak stem as sturdy as an oak, under different conditions.

Among the new kinds that have proved of undoubted merit are Yellow Queen, Marion Henderson, Lady Playfair, Mutual Friend, Minerva, Major Bonaffon, Eugene Dailedouze, Inter-Ocean, Silver Cloud, Miss Florence Pullman, Clinton Chalfant, White Boehmer, Mlle. Therese Rey, Chas. Davis, A. H. Fewkes, Marie Louise, Mayflower, H. L. Sunderbruch, Mrs. Potter Palmer, Richard Dean, Shawmut, Seguisiana, Fisher's Torch, Pitcher and Manda, Mrs. Magee, Amoor, Mrs. Robt. Pitcairn, Mrs. C. Harman Payne, Mrs. Howard Rinek, Georgiana Bramhall, John Shrimpton, Mrs. H. N.

Higinbotham, Constellation, Triomphe de St. Laurent, and anemones Rider Haggard, Nemesis.

Quite a difference of opinion exists as to Mrs. E. G. Hill and Mrs. Craige Lippincott; some praise, others condemn. As to the late varieties, it is too early in the season to report definitely.

The varieties that have been mentioned represent all classes, some adapted to exhibition only, others first-class all around sorts.

GROVE P. RAWSON.

A Commercial Cut Flower Pink Chrysanthemum.

It is just what we are all after. Something that will fill the bill, without the ugly tones of lilac, magenta or violet; that is the common characteristic of most of this class.

At Chicago the judges awarded a certificate to Mrs. S. T. Murdock, from Fred Dorner & Sons, as nearer the ideal than any of the varieties yet known to commerce. It is really a bright rose color of a light tint, if you do not consider my wording paradoxical. The whole tone is even and pure, and this in itself is an improvement. The flower is full, shapely, and plenty large enough, though it is not a mammoth bloom. The habit is compact, good foliage and stem.

Mrs. Potter Palmer is a good sort, but having a lavender tint; still it is worthy of trial for commercial use. Exhibited by the grower, Walz, Cincinnati. Although it has made its bow before the public it was shown last year, still it is little known to the trade. I am pleased with it.

Lady Playfair has proved excellent, in color a lighter shade of lavender pink or blush than the above. The flower is of great size and substance, a splendid shipper, and one of the earliest. An incurved bloom.

Mrs. E. G. Hill is early enough if properly grown, but has several weak points, color rather washy, not a good keeper, and too tall in growth just to suit me. However, my opinion may not be your experience.

G. P. R.



TO PREVENT RUST.—Dissolve one pound of sulphate of copper in two quarts of ammonia in a 2-gallon jar. When dissolved add another quart of ammonia and stir well. [The liquid can be kept in this form for some time and used as needed.] Add a pint of this solution to a barrel of water and syringe the plants with a force-pump every two weeks. And don't let the time for spraying pass without attending to the operation.

Carnations Notes.

It is far better to improve the stock you have on hand than to buy every new variety that is offered, and of which you know no more than what you may have seen on the exhibition table or what you may have read of or learned from the glowing descriptions of some shrewd salesman. Selection systematically attended to will build up your stock and do away with the necessity of replenishing your plants with new sorts or old varieties as is often the case.

Now this is not a tedious or irksome undertaking, for a beginning can be made with not over six plants of a kind; this is also better than to attempt more at once. Mark now the plants which show the

greatest vigor both as to strength of plant, its tendency to early flowering and above all, such plants as produce the best flowers. From these plants take the best cuttings. I prefer those from the flowering stem. Keep these cuttings for your stock and separate from all other cuttings you may make both inside and when planted out, not that they will be affected by being near other stock, only to secure you against getting the plants mixed. Every successful seed grower is obliged, if he wishes to improve his stocks or even to keep them up to the standard, to pay very close attention to selection and so must the florist, although the methods of reproducing are very different. I had the pleasure of visiting the houses of a grower who took the variety Lizzie McGowan in hand as soon as he received it and by selecting the best has now a stock that is very much ahead of any others that I have ever seen, and the bloom he sends into New York are always the best. By selection McGowan will lose much of the habit it has of the petals recurling; this I believe is its only fault.

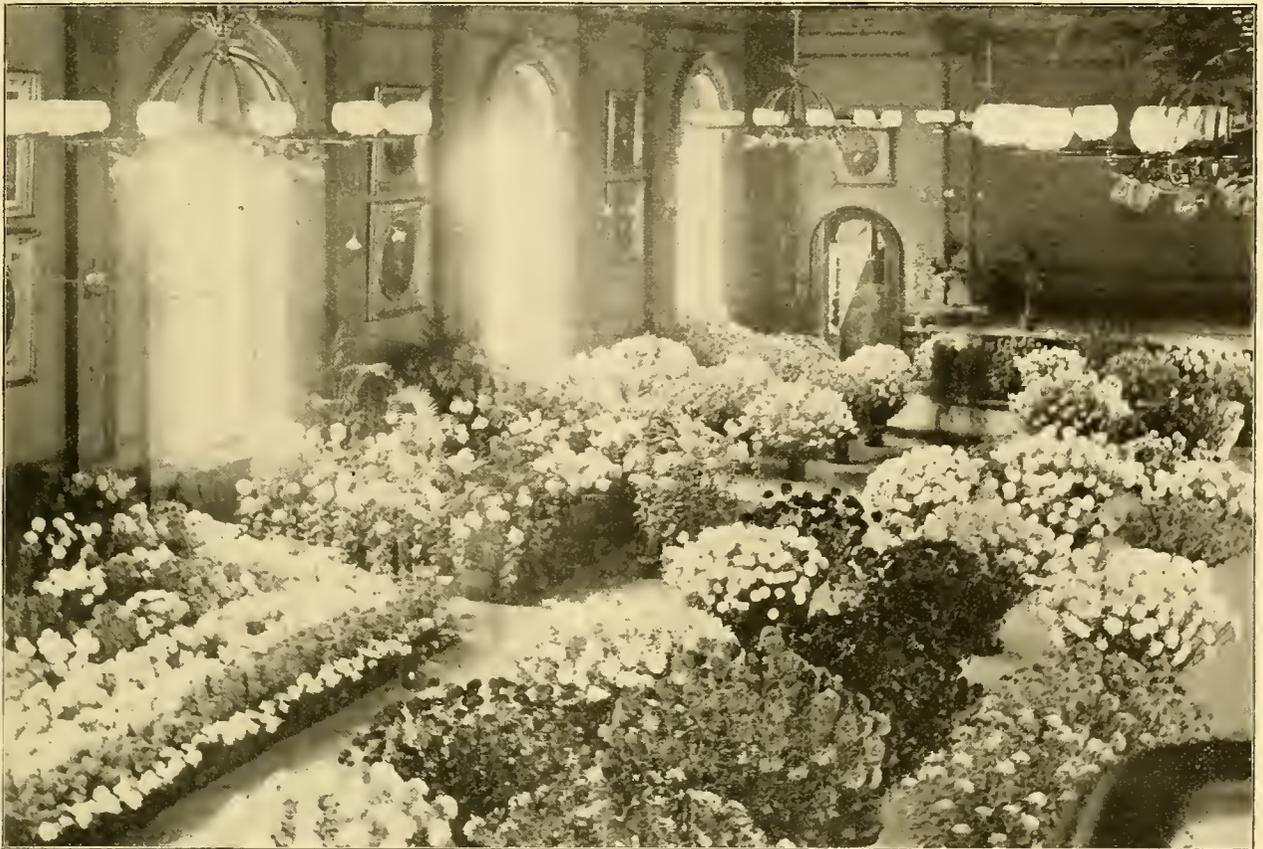
Watch carefully for sports showing improvement. This comes under the head of selection. From whence came The Bride and Bridesmaid roses? Are they not sports and of great benefit to the trade? There is scarcely a bench of carnations in this country in which you will not find sports in some shape. Use judgement, common sense and the results will be to your advantage. I do not wish to be understood as saying that any man in the trade to-day would disseminate a variety which he did not think was a little better than any other yet sent out, but we are a little overconfident as to the merit of our seedlings, and I would strongly advise any grower who can not readily lose the amount of his purchase to buy new sorts with great caution. As soon as he is confident that a novelty will do well in his locality then let him push it for all it will stand. Another point in laying in new sorts is, will they sell? A grower having a local trade has not so much to fear in this line, but for the wholesale market look out. The larger the market, the more critical the buyer as a rule, but all demand the best and the best can only be obtained through selection.

The most popular of new sorts lately introduced to the New York market is Wm. Scott. What few were sold here last year made this a standard variety and the quantity of young plants sold is now showing its effects; even the Greeks get hold of a few. The wholesaler is endeavoring to keep them off the streets but I fear this can be done only for a year or so as it is so remarkable in its growth and blooming qualities here that it will surely run Wilder to the wall.

CHARLES H. ALLEN.

Chester County Carnation Society.

The November meeting of the society was held at headquarters, Saturday, 3d inst., with good attendance. Messrs. Robt. Craig and Geo. C. Watson of Philadelphia were in attendance. Mr. Watson explained the proposed scheme of Philadelphia growers for disposal of cut flowers and read the prospectus of Philadelphia wholesale flower exchange. It is desired that united co-operation be secured before the exchange commences operation. A number of the large growers of Philadelphia have already agreed to back the project with money and consignments. Mr. Craig spoke of the very unsatisfactory arrangements heretofore existing for sale of cut flowers in Phila-



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delphia by the growers who sell from store to store. The prospectus provides for operations to begin when the approval has been secured of the growers of three-fourths of the cut flower trade of Philadelphia; about half of the stock has already been subscribed, and it is confidently believed the balance will be speedily taken by local growers.

Edward Swayne thought instead of a system of grading flowers each grower's flowers might be sold on their own merits. Mr. Watson explained that there would be more opportunity for equal division of sales if all flowers of same grade were massed and sales of each day divided pro rata among the shippers. By having long distance telephone connection a glut could frequently be relieved by shipments to other cities.

Mr. Craig thought the exchange would be the most economical system that could be provided for sale of flowers. Each consignor being a shareholder would participate in the profits of the business. Mr. Shelmire thought the plan was about what we had been looking for and thought those who were shipping could not afford to stand back, but should promptly give their aid to the project.

Mr. Craig spoke of lifting and potting carnations and holding in a cold frame until the houses of early chrysanthemums were cut, when they were benched. He advised for this purpose Mrs. Whilldin, Mrs. E. G. Hill, Mrs. Bergman and Kate Brown.

Sec'y Shelmire, C. G. Pennock and J. J. Styer were named as a committee to have charge of the flower exhibit of the mem-

bers at the coming chrysanthemum show in Philadelphia. Mr. Craig thought the show would be far beyond anything ever shown in Philadelphia. A number of seedlings were shown by G. W. Love & Son, Hicks & Son, Percy Barnard, and C. J. Pennock. Edward Swayne showed fine specimens of Lillian Abbey on extra long stems, flowers large and bright.

C. J.

New Carnations.

Della Fox (Myers & Santman).—Seed parent Daybreak, pollen parent Grace Wilder; flowers large, of a rose pink color that is three or four shades deeper than Daybreak.

Jupiter (R. T. Lombard).—Delicate pink. Eldorado.—Golden Gate crossed by Cæsar; light yellow of a very pleasing shade, each petal bordered with a light edging of pink similar to a picotee. Petals rather deeply serrated.

Kitty Clover (W. R. Shelmire).—Golden Gate and Cæsar; light sulphur ground lightly pencilled with deepcarmine; white and light red.

Eulalie (Shelmire).—Golden Gate and Cæsar; light yellow pencilled with light pink, petals deeply fringed.

Princess Bonnie (Shelmire).—Mrs. McKinsey and Cæsar; light pink ground marked and pencilled with a darker shade.

Lylene (Shelmire).—Mrs. McKinsey and Cæsar; very light delicate shade of pink; flowers medium sized, deeply fringed and on long stiff stems.

Dr. Warder (Shelmire).—Tidal Wave and Cæsar; a rich shade of crimson

rather darker toward the edge of the petals, which are deeply fringed; flowers of a good size.

Marian (Shelmire).—Angelus and Cæsar; deep scarlet, large flowers with deep fringe to petals. ALBERT M. HERR.

Covering Pansies in Cold Frames.

Please tell me the best way to cover pansy plants in cold frames. I want to cover them with leaves but I don't know whether to let the leaves touch the plants or to leave a space between the plants and the covering. J. D. S.

If it is too large a batch to cover with sash (which it pays well to do) the next best thing is a covering of hemlock branches. Place them on the beds just thick enough to hide the young plants. If the hemlock cannot be had, clean straw laid carefully and not too thickly over the plants will answer. The straw can be kept in place by a few thin boards. WM. SCOTT.

Propagating the Swainsona.

Replying to the inquiry as to the best season of the year to propagate the swainsona, would say that so far we have found no difficulty in the raising of this useful florist's plant from cuttings at any time, excepting perhaps in the very hottest months of the summer. We put in a batch a few weeks ago which are looking very promising. They require no special treatment, rooting as freely with us as carnations, roses, etc.

EDWIN LONSDALE.

New York.

The weather continues to vex and distract those whose vocation it is to make their living by the production or sale of cut flowers, and together with the "general apathy" and the excitement over election succeeds admirably in its discouraging work. There is really no market price for anything and yet those who might under ordinary circumstances take advantage of these (to them) desirable conditions, to wit, the street men, are lying very low and refuse to enthruse.

There are plenty of good flowers. Roses in all desirable varieties, carnations in new and popular sorts, chrysanthemums without end, and violets even are piling in to the market in almost unlimited quantities but the overstock is so great that when good figures are received for a few lots it makes but little impression on the general results and growers are respectfully advised to practice patience and fortitude, there being no alternative for them.

John Reid is sending in from five to eight hundred Perles daily. This rose, so fickle with many growers is with Mr. Reid one of the best and his soil and treatment seem to suit it exactly. This grower also hangs on to Niphetos which also seems very much at home in his establishment.

Louis Dupuy has been bringing in some well bloomed plants of *Erica hymemalis* which give a rich effect in the florists' windows on Broadway. *Ericas*, and orchids dressed with *adiantum* and *Cocos Weddeliana* make an ideal window display.

"The N. Y. Sun" has made a discovery. Here it is: "The best chrysanthemums sell on Broadway for a dollar each. As cultivators would grow rich selling them at five cents each, someone must be making good for the late hard times."

John Ketchum, a Glenwood florist was seriously injured by being thrown out of a wagon when out driving on the night of October 28th.

An uptown florist has designated his shop with the new title of "Botanic Depot."

Boston.

Tuesday, the 6th of November, was expected to furnish some surprises. There had been talk for a month about political landslides and snow storms, but no one was prepared for what did happen, and it is safe to say that the greatest surprise hereabouts was when people got up on election day morning and found the country buried in nearly a foot of snow, the old fashioned article. The *salvias* and *nasturtiums* of the evening before had gone to their last sleep, and the trees and shrubs were everywhere crushed and broken down with their weight of snow and ice, a disaster for which the dazzling beauty of the landscape was but small recompense. It is presumed that after such a dramatic entry winter will now stay with us, and with the increased consumption of coal the price of cut flowers generally will advance. If they do not they ought to.

The last two visits of the garden committee of the Mass. Horticultural Society were to the greenhouses of Mr. Walter Hunnewell, which are in charge of Mr. T. D. Hatfield and the Bussey Institution, where Mr. Chas. J. Dawson presides as gardener, at both of which places were found chrysanthemums in abundance, Mr. Hatfield's comprising many new

varieties and seedlings, and a fine display of large specimen plants, and Mr. Dawson's exhibit consisting of neat little pot plants naturally grown without stakes, and well furnished with foliage and medium sized flowers. As the main features of these collections are covered in the report of the chrysanthemum show at Horticultural Hall further comment is unnecessary here. The company spent a most enjoyable two hours with their knees under the dining table at the Dawson homestead, the logs in the old fashioned fireplace blazing merrily all the while. Happy is he who is Jackson Dawson's guest.

Mr. Wm. A. Bock of Cambridge was a candidate for the legislature on the democratic ticket. Results indicate that he will be free to devote his whole time to the flower business this winter, as in the past.

Philadelphia.

The past week has ushered in some fine varieties of chrysanthemums to add to the already long list and the next few days will see many more, and extra fine they are said to be, placed on the market. Among the late arrivals are the Queen, Vivian-Morel, Mrs. C. Lippincott, Mrs. M. Simpson, Minnie Wanamaker, Ada Spaulding and a number of other kinds in limited quantities, among which are a few fine blooms of Major Bonnaffon from Mr. Lonsdale; he also has had some fine *Niveus*. Jos. Heacock has Mrs. Lippincott in good shape and promises other varieties in extra good condition in a few days. G. Anderson has Ada Spaulding doing well and says E. Dailedouze will be very fine with him in a day or two, other growers also speak well of this fine variety. Mr. Harris has good Ivory and Advance, his own pink, and other varieties, he will commence cutting Mrs. H. H. Battles, a very light pink of the same shape and general appearance of flower as Ivory; he thinks this will be a great seller. Mr. Bunting of 58th and Elmwood has some extra fine flowers; all his varieties are good but his Vivian-Morel are of extraordinary size, many of the flowers being 8 to 10 inches in diameter. From the samples seen, we shall expect to see quite a number of premium cards tacked up on the greenhouse doors at his establishment after the "Greatest Show on Earth" is over. Chas. Evans is also in it, and has a fine lot of the standard varieties in town every day. Robert Craig has a house of the Queen, and a lot of other good sorts.

Mrs. Hill is done; it promised well at first but soon developed into a failure, the color was not right and the stem very weak. As to prices, the best flowers have sold for from \$2 to \$3 per dozen, the latter price for extra selected. The majority of good stock brings \$1.50 per dozen, and the price runs down by degrees from this figure to 20 cents per bunch for small stock.

We should like to say a word about cutting "mums," quite a number of the growers cut their flowers just before they send them in. This plan is wrong, it is bad for everybody, the grower, the dealer and the consumer. No flowers of any kind, except possibly violets, should be placed on the market the day they are cut; they should stand at least over night in water and in the case of chrysanthemums they are the better for being 24 hours in the cellar, without this preliminary training as it were, they do not stand transportation or handling, bruising

very easily and wilting quickly when placed in a warm room. They are then called stale by the average customer and the florist called to make the lot good or lose a customer.

The rose and carnation stock is about the same as last week. Mr. Heacock is cutting some Beauties now that are hard to beat in the market, but then Lonsdale however has not commenced to cut yet; he generally walks off with the prize when he commences. Carnations were never as cheap at this season as they are at present when one considers the quality which is A1. \$1.00 is now asked for the best; last year it was \$1.50 and \$2.00. Double violets are getting better and bring 50 cents per hundred. K.

Chicago.

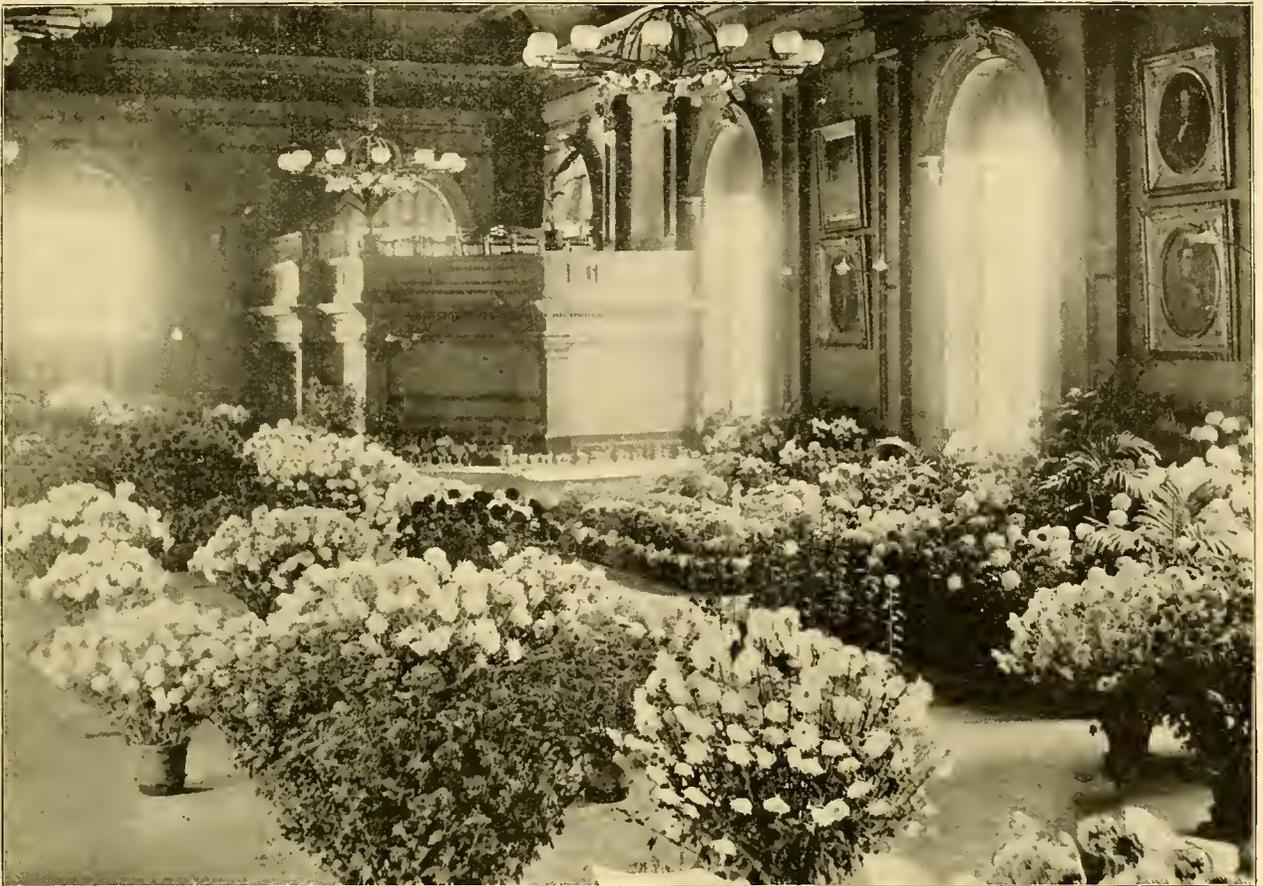
Well, the snow is on, but the much looked for boom in the chrysanthemum line has not materialized to any alarming extent. Simultaneously with the opening of the exhibition a large supply of fancy blooms were thrown on the market; these sold at fair prices, but the poorer grades were not in it a little bit. Of the high class stuff Dailedouze is at the front in yellow; a limited supply of Major Bonnaffon is also very fine, and Lincoln shows up better in general quality than ever noted before. All three varieties are good sellers. In whites The Queen is probably the best at present, but the boys are not over anxious to stock themselves up with it as it drops too quickly. Marie Louise is good, but this form don't seem to take any too well on our market. The old reliable Domination is right to the front, and Minnie Wanamaker is really fine, but after all Ivory is evidently, to judge by the demand, the most popular sort; there is more call for this sort than all the other whites combined. For pink we have some fine Harry Balsley, Lady Playfair and a fairly good supply of Vivian-Morel. There is little or no demand for any of the reds. A few good bronze such as Hicks Arnold go very well, but the majority in the line which might be termed off colors go very slow.

First-class Beauties sell on sight, but the smaller varieties are still in the dumps. The best blooms are being withdrawn for the show and there is considerable kicking by the retailer as regards the quality offered on the market.

In carnations it is much the same. After looking at the show blooms in Battery D the boys are disgusted with having to be content with the inferior article. Still the general quality is fully up to the average.

Violets are plenty. Chas. Northrop of La Grange is sending in some very good blooms, and so are a number of other growers. Valley is quite abundant, in quality of the best, demand good.

Anybody looking for the retail boys at their place of business will look in vain except at an early hour in the morning, when they may be seen wrestling with the all important problem of how to knock down the finest persimmon at the exhibition. The successful ones are noted in another column. But in the afternoon and evening you are pretty sure to find every member of the craft at the show vigorously discussing the decisions of the judges. You needn't ask who are the winners or the losers, just take a square look at them as you meet them, and a question is superfluous. That complacent smile of Joe Curran's on Tuesday tells the story graphically, and so does that of Phil Hauswirth, which he wears on the



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other side of his mouth. On Thursday the order of things is reversed and Joe wears his smile on the wrong side. But you can't discourage the boys; those that are knocked out to-day bob up serenely to-morrow again. Well done boys, keep it up!

Mr. Rawson heard some "big" blooms would be on exhibition here so he brought along a tape line 100 feet in length for the purpose of making measurements.

At the meeting of the Florist Club Thursday night the new officers were installed. The routine business was quickly disposed of, whereupon refreshments were served. The two chrysanthemum show judges still in the city, Messrs. Rawson and Bennett, were present, and favored the club with their impressions of the Chicago show and Chicago people, Mr. Rawson giving a recitation on the "mum" that brought down the house. Mr. Bennett extended a cordial invitation to all to be present at the S. A. F. convention in Pittsburg next August. Mr. J. M. Gasser of Cleveland was also present, but when called upon to tell the club how they did it in his city, he replied that they didn't do it at all, which fact was much to be regretted.

Among recent visitors in addition to the chrysanthemum show judges were Adam and James Currie, Milwaukee; F. J. King, Ottawa, Ill.; H. Weber, Oakland, Md.; E. G. Hill, Richmond, Ind.; W. W. Coles, Kokomo, Ind.; Mr. Dorner, Jr., Lafayette, Ind.; W. P. Zibell, representing H. A. Dreer; Mr. and Mrs. J. M. Gasser, Cleveland; W. H. Ellis, Milwaukee.

On Wednesday the weather was villainous, and the attendance at the exhibition

was very thin. Thursday was better though still very unpleasant, and the attendance was excellent. Friday the weather was worse than ever.

Annals of Horticulture.

We have received Prof. Bailey's "Annals of Horticulture" for the year 1893. It is now five years since this series of volumes was undertaken. The need of an accurate record of passing events is felt in every department of art and commerce, and our own profession feels this need more and more as its notable movements pass into history. Much valuable matter is already lost, as for example the records of the American Association of Nurserymen for 1878 and 1879, of which we find it impossible to obtain any history. Prof. Bailey's work aims to preserve passing events in horticulture and floriculture, and it will surely be of great value as years pass on. Everything has already been written; the trouble is that so much material is entirely unavailable because it is buried out of sight; we need condensations and indices of material already written more than new matter.

The purely horticultural part of the book under discussion need not be touched on here; it contains imports and exports of fruits and vegetables; crop statistics, etc. The section devoted to floricultural interests opens with an account of the World's Fair chrysanthemum show, giving a full list of the awards. This is followed by a list of the new chrysanthemums registered in 1893. Here we must offer a slight criticism; there are several typographical errors in the names, which

are much to be deplored in a work which must be consulted as an authority on accuracy. We refer to such misprints as Bonnafor for Bonnaffon, Mrs. Craig Lippincott for Mrs. Craige Lippincott, Somersett for Somerset, Dailedouze for Dailedouze, Colloseum for Colosseum, and Mrs. J. Geo. Iils for Mrs. J. Geo. Iis.

In matter printed hurriedly errors are at times unavoidable, but in a permanent record absolute accuracy is an essential.

The American Rose Society is mentioned, but we do not find any notice of the national carnation or chrysanthemum societies. The horticultural and floricultural history of the Columbian Exposition is particularly valuable; it seems likely that Prof. Bailey's book will be the only unofficial record of this department of the exhibition. The displays, awards, judges and arrangements are all fully set forth. The references to the arrangement in Horticultural Hall can be commended for the justness of its criticism. The outdoor gardening is very fully discussed.

In the "Special annals" we find record of all the new plants introduced in 1893, including florists' varieties. We find 26 new carnations, 84 chrysanthemums, 13 roses and 22 sweet peas.

It must be added that Prof. Bailey has completed his book with a very full and copious index. So many volumes, otherwise excellent for reference, are crippled in their usefulness by the want of this feature that it is worthy of special mention. A reference book with a slovenly index is a failure, and we must give Prof. Bailey especial praise for the care bestowed on this.

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

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

Address THE AMERICAN FLORIST CO., Chicago.

J. C. RENNISON, of Sioux City, Ia., has sent us from time to time specimens of printed matter used in advertising his business that show him to be fully alive to the importance of keeping same before the flower buyers of his city. His latest is a neat 4-page folder in two colors on the front page of which appears an engraving of his greenhouses and on the back one of a prettily arranged basket of flowers. The two center pages give current retail prices of flowers, bulbs and chrysanthemum plants. He endeavors to especially cultivate standing orders for \$1, \$2 and \$3 boxes of flowers to be delivered regularly on stated days.

BIGGLE BERRY BOOK, being number two of the Biggle Farm Library, has been recently received by us. It is an excellent little manual of berry culture, illustrated with handsome colored plates. (Wilmer Atkinson Co., Phila., publishers).

SIMON S. SKIDELSKY, formerly with the late firm of Ernst Kauffmann & Co., Philadelphia, is now connected with the firm of M. Rice & Co., of the same city.

CHAS. W. MCKELLAR, of the late firm of Corbrey & McKellar, Chicago, will travel for E. H. Hunt.



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15 cents per String.

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we lead them all for CHOICE CUT BLOOMS when you want to get "THERE." Remember also that we handle gilt edge Valley, Roses, Carnations, Orchids, and other flowers, and send out only FIRST-CLASS flowers.

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Lily of the Valley constantly on hand.

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Pink, White and Yellow,

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" Beauty	2.00@ 5.00
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" Meteor, Testout	2.00@ 4.00
" Kaiserlin	2.00@ 4.00
Carnations	50@ 1.00
" fancy	1.00@ 1.50
Chrysanthemums	1.00@ 6.00
" fancy	6.00@25.00
Valley	2.00@ 3.00
Violets	.35@ .75
Smilax	8.00@10.00
Asparagus	35.00@50.00
Adiantum	.75@ 1.00

BOSTON, Nov. 6.

Roses, ordinary	1.00@ 3.00
" Extra, Mermets, Brides	3.00@ 6.00
" Meteors, Bridesmaids	3.00@ 6.00
" Beauty	6.00@25.00
Carnations	1.00@ 1.50
" Daybreak	1.50@ 2.00
Chrysanthemums	4.00@25.00
Valley	3.00@ 4.00
Cosmos	.25@ .50
Violets	.50@ .75
Adiantum	.75@ 1.00
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Asparagus	50.00

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Roses, small	2.00
" large teas.	3.00@ 4.00
" Beauties	12.00@16.00
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Smilax	12.00@15.00
Asparagus	35.00@50.00
Violets, double	40@ 50
Catties	35.00@40.00
Cosmos	.50@ .75
Chrysanthemums	3.00@12.00
Chrysanthemums, specimens per doz.	2@3
Adiantum	.75@ 1.00

CHICAGO, Nov. 3.

Roses, Beauty	8.00@20.00
" Albany, Brides, Bridesmaids	3.00
" La France, Wootton, Testout	3.00
" Mermets	3.00
" Meteor	4.00
" Perle	2.50
Carnations	2.50
Violets	.75
Valley	4.00
Chrysanthemums, Ivory	6.00@10.00
" Yellow Queen	15.00
Mrs. Hill, doz.	1.00@1.50
Whitlaid, "	1.50

ST. LOUIS, Nov. 6.

Roses, Perles, Wootton	2.00@ 3.00
" Bride, Mermet, Albany, La France	3.00@ 4.00
" Kaiserlin	4.00@ 5.00
" Bridesmaid, Meteora	3.00@ 4.00
" Beauty	8.00@20.00
Smilax, single, per 100	25c
Violets, long	1.00
Carnations, short	.50

CINCINNATI, Nov. 6.

Roses, Perle	3.00
" Kaiserlin, Mermet	4.00
" Bride, Bridesmaid	4.00
" La France, Meteor	5.00@ 6.00
" Wootton	4.00
" Beauty, Belle	8.00@20.00
Carnations	.50@ 1.50
Valley	4.00
Smilax	15.00
Chrysanthemums	8.00@25.00

BUFFALO, Nov. 7.

Roses, Beauties	10.00@20.00
" Mermet, Bride, Kaiserlin	3.00@ 5.00
" Perle, Cusin	3.00@ 4.00
" Meteor, La France	4.00@ 6.00
Carnations, long	1.00@ 1.50
" short	.75@ 1.00
Valley	4.00
Violets	.50@ .75
Chrysanthemums	6.00@15.00
Adiantum	1.25

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METS,
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The Seed Trade.

AM. SEED TRADE ASSOCIATION.

D. I. BUSHNELL, St. Louis, president; S. E. BRIGGS Toronto, 1st vice-president; A. L. DON, 114 Chambers street, New York, secretary and treasurer.

NASTURTIUMS are likely to be on the short list again next spring.

CUCUMBER seed cannot be called scarce even after a dry season when it can be had in large lots as low as 12 cents.

RADISH seed growing in California is somewhat handicapped by unsatisfactory threshing and cleaning arrangements.

CAN SWEET pea seed be carefully grown at 5 to 8 cents per pound is a question some of the jobbing trade are asking now.

THE vitality of California grown onion seed when stored there in an even temperature is retained longer than is generally known.

SPRINGFIELD, MASS.—An attachment has been placed upon the store of A. F. Leonard & Co., seedsmen and dealers in horticultural implements.

VISITED CHICAGO: Mr. Rob't Pommer of D. I. Bushnell & Co., of St. Louis; Jas. O'Neill, W. G. Langbridge, J. M. Kimberlin & Son, W. R. Roache.

A CORRESPONDENT asks for information in regard to probable mail demand for Lathyrus silvestris next season. Will some one volunteer to enlighten him?

THE Portuguese onion growers of Alameda, Calif., produce a high globe onion by growing on loose sandy soil and transplanting the young plants, setting them deep in the soil; they produce the finest market onion in that state.

THE stock of named sweet peas still in first hands in California is roughly estimated at one hundred thousand pounds; evidently there is no good reason for sending out any varieties under name that are not absolutely true,—throw the doubtful ones into the mixtures, many of the best may go there later anyway.

Kansas City, Mo.

A trip around to the florists at this season of the year is generally a pleasant one. The new ideas and resolutions adopted more or less every year, are always interesting as well as instructive.

One of the rarest treats is a visit to the Probst Floral Co. establishment, the success of which is due to the management of Mr. Samuel Murray, who is always capable of showing us something first-class, even to a drop of good cider, and it is said that his commodious cellar is filled with it.

A walk through six houses well stocked with chrysanthemums is worth your while. Mr. Murray has always been successful with his "mums," but this year he has overreached all previous records both in quantity and quality. The "Queen" is grown in abundance, some blooms measuring 10 inches and very perfect. King's Daughter, Jessica, Waban, V. I. Hallock, Ivory and several other good sorts are now in bloom. One bench of W. H. Lincoln in pots is looking very promising. Mr. Murray is growing 5000 in all this year, partly in pots and partly in benches. The carnations and roses are looking first class. A. N.

AUSTIN, MINN.—Our item in regard to the new house built by A. N. Kinsman & Co. should have given the size as 18x60

instead of 16x18. The house has the short span to the south and is planted with roses for cut flowers. The place is now heated by steam.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

SITUATION WANTED—In a retail store by a young man of 20. Best of references. Address BROOKLYN, care American Florist.

SITUATION WANTED—By a German florist: 12 years' experience around greenhouses. Good references. Address KANSAS, care Am. Florist.

SITUATION WANTED—By competent gardener and florist; married man; life experience. Best references. GARDENER, 123 Scoville St., W. Cleveland, O.

SITUATION WANTED—By German, as gardener and wife as first-class cook, in private place. 15 years' experience. References. Address Box 51, Oak Park, Ill.

SITUATION WANTED—By a florist, age 26, practicalist; rosegrower and propagator, also English cucumber. Prefer a smaller place with prospect of renting it. Address ILL., care Am. Florist.

SITUATION WANTED—By practical plantsman of S executive ability; general propagation and growing of all requisites of commercial places. Items of the nursery, cut flowers, roses, carnations, etc. Best of references. Address PLANTS MAN, care Am. Florist.

WANTED—Cut flower artist. Address B. A. ELLIOTT CO., Pittsburg, Pa.

WANTED—To rent with lease, a florist place with two or three greenhouses in or around Chicago. Address CULTIVATOR, care American Florist.

WANTED—Office man and correspondent who is familiar with plant business. Give particulars to J. D. EISELE, Dreer's Nursery, Riverton N. J.

WANTED AT ONCE—Second-hand hot water boiler to heat 1200 square feet glass; also 4-inch pipe. Address W. P. RANSON, Junction City, Kan.

WANTED—A partner; a thorough florist and nurseryman. I have land, water, etc. Some capital required. References given and expected. Address A. D. CHASE, Ardmore, I. T.

WANTED—Sober and willing man to work as assistant, with several years' experience in greenhouse work; wages for winter \$15 per month and board; steady work to right man. IL G. FLAMMER, 510 Elmwood Ave., Detroit, Mich.

FOR SALE CHEAP—Large second-hand florist's Ice Box, value about \$75. VAUGHAN'S SEED STORE, 88 State Street, Chicago.

FOR SALE CHEAP—Large, new hard wood and glass florist's refrigerator. Used at World's Fair. Price reduced to \$175. VAUGHAN'S SEED STORE, 146 & 148 West Washington St., Chicago.

FOR SALE OR TO LET—Seven greenhouses and floral store, the oldest and only first-class establishment within one hundred and fifty miles of this city; cannot grow one half the flowers demanded. A rare chance to make money in a large and the most rapidly growing city in the world. Reasons for selling, am about to retire from all business. For particulars address A. McCOMBER, 921 East Third St., Duluth, Minn.

FOR SALE.

A rare opportunity for a pushing man with small capital, an established well-paying florist business on one of the best streets in Philadelphia. Has fine large store and three greenhouses fully stocked, containing 1400 feet of glass. Will sell at a bargain to quick purchaser, as owner has other business. Address ARTHUR MALLON, JR., 2432 Ridge Ave., Phila., Pa.

"HARD TIMES" PALM COLLECTIONS.

For cash with order we give 17 3/4 and 4-in. Palms for \$3 (regular price \$4), and 34 for \$5 (regular price \$8). These comprise the best varieties, including Lantanias, Kentias and Areca luteocens. Send for list.

WILLIAMS & SONS CO., Batavia, Ill.

Cheap Bulbs AND Plants

Fancy Leaved Calladium Bulbs, fine \$1.50 to \$15 per 100
Cape Jasmine, 2 1/2-inch pots \$25.00 " 1000
" " 4-inch pots 7.00 " 100
" " 5-inch pots 10.00 " 100
Vinca var. 2 1/2-inch pots 2.00 " 100
Ampelepis Vetchell 2.00 " 100

I will take in exchange a small steam pump for above goods as well as for large foliage plants and palms. Address

F. J. Ulbricht, L. B. 655, Anniston, Ala.

Lily of the Valley.

First quality for forcing, November delivery. Strong pips, \$5 per 1000. Cash with order.

H. WREDE, Luneberg, Germany.

FLORAL DESIGNS

The Cut Flower Worker's Friend. Fine book of 160 pages. Send \$3.50 for it, to

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Siebrecht & Wadley,

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NEW ROCHELLE, N. Y.



Palms,

ORCHIDS,

Roses,

and New Plants.

FRESH DRACAENA CANES NOW READY.

For Sale Now.

5000 Geraniums, rooted cuttings, best new and old varieties, \$15.00 per 1000.
300 Chinese Primroses, 4 inch pots, from German seed, with flower buds, \$6.00 per 100.
200 Primula Obconica grand., 4-inch pots, in bloom, \$6.00 per 100.
200 Cineraria, 4-inch pots, strong, 10c.
100 " 6-inch pots, strong, 18c.
200 Vinca Harrisonii, strong clumps, \$5.00 per 100.
500 Cannas, field-grown clumps, \$5.00 per 100.
Coreopsis lanceolata, Achillea "The Pearl," Hardy Phlox, Helianthus, Hibiscus, crimson eye, and other Hardy Perennials.

HARDY ORNAMENTAL SHRUBS IN VARIETY.

E. M. & H. N. HOFFMAN,

Nurserymen and Florists,

ELMIRA, N. Y.

PANSIES.

The Jennings Strain of large flowering and fancy Pansies ready October 15th and on to May 1st.

THE JENNINGS STRAIN ALWAYS SATISFACTORY.

Price free by mail 60 cts. per 100; by express 1000, \$5.00; 5000, \$20; 10000, \$35. All colors mixed. Pansy seed, finest mixed, 2500 seed \$1.
" yellow black eye, 2500 seed \$1.

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PANSY SEED.

NEW CROP NOW READY. Very fine mixture of large flowering varieties and choice colors, especially selected for florists' use. 1 oz. \$3.00.

NEW GIANT PRIZE PANSY, finest strain in the market. 1 oz. \$5.00.

Low prices on Lilium Harrisii, Lougiflorum, Roman Hyacinths, Lily of the Valley, etc.

Special low prices on Rustic Baskets.

HERRMANN'S SEED STORE,

413 EAST 34TH STREET,

Near Long Island Ferry, NEW YORK.

Pansy Plants.

EXTRA FINE STRAIN.

75 cents per hundred; \$5.00 per thousand.

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The Best and Largest Stock in the World. New & Rare Foliage & Flowering Plants. A grand selection for Stove, Greenhouse and Conservatory.

SANDER, St. Albans, England.

Our Mr. A. Dümmeck will be pleased to interview buyers or reply to any communication addressed to him at 25 Greenwich St., New York City.

A. Farleyense Fern

2-inch.....\$12.50 per 100

3-inch..... 17.00 per 100

4-inch..... 40.00 per 100

Largest stock in the west. Satisfaction guaranteed.

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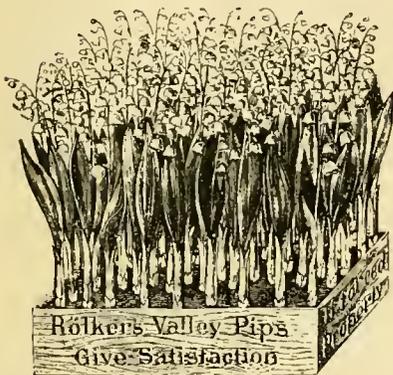
How to Grow Cut Flowers.

By M. A. HUNT.

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BEST GERMAN FORGING PIPS

\$9.00 the 1000 by the box of 2500;
\$10.00 the 1000 for less quantities.
Less ten per cent. for prompt cash.

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NEW GLADIOLI.

MAY, a new white variety tinged with pink, very fine for forcing, large spike and flowers, petals of great substance.

Best mixed Gandavensis, composed largely of white and good light pinks. No Lemoinei or Brechleyensis.

CUSHMAN'S SEEDLINGS won the Florists Certificate of Merit at Atlantic City.

We have a large stock of the above and can supply any size and quantity.

Prices on application.

CUSHMAN GLADIOLUS CO.,
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WHITE ROMAN HYACINTHS AND

Paper White Narcissus Grandiflora,
at closing out prices.

Address **C. H. JOOSTEN,**
3 Coenties Slip, NEW YORK.

August Rölker & Sons AUCTION ROOMS,

205 Greenwich Street, NEW YORK.
Sales every Tuesday and Friday during September and October.

Palms sold on Tuesdays only.

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

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MANUFACTURERS OF
AUTOMATIC MACHINES FOR PUTTING UP SEEDS,
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**ONION SETS,
SWEET PEAS**

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AND A GENERAL LINE OF FLOWER SEEDS, GARDEN TOOLS, ETC.



From Japan
Bulbs, Seeds, Trees, Palms, etc.

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ARAUCARIAS, PALM SEEDS, ETC.

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BULBS, SEEDS, TREES, ETC.

Orders booked up to December 1st for
CYCAS REVOLUTA STEMS.

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Oldest and most reliable import house.

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Special low prices to

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WEEBER & DON,
Seed Merchants and Growers.
114 Chambers Street, NEW YORK.

READY NOW.

Black Calla Bulbs

Extra size, \$10.00 per 100.

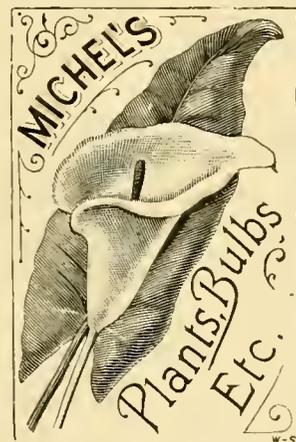
CASH WITH ORDER.
CHAS. SCHWABE,
404 E. 34th Street, NEW YORK.

Choice Florist Seeds.

Pansy, Calceolaria, Primula, Cineraria,
choicest strains, at 25 and 50 cts. per trade packet.
Special quotation on **BULBS.**

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The Universal
Horticultural Establishment, SOUTH ORANGE, N. J.

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MICHEL PLANT AND BULB CO.,
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AND NURSERYMEN.

Contract Price List on application.

BULBS.

Hulsebosch Bros.
ENGLEWOOD, N. J.

SELL ALL KINDS CHEAP.

St. Paul, Minn.

Trade shows quite a decided improvement. "Mums" are coming in quite freely. Roses are retailing at \$1 to \$1.50 per dozen, Beauties at \$3, carnations at 35 cents, violets at 50 cents per bunch of 25. Chrysanthemums are retailing all the way from 75 cents to \$3 per dozen. Some extra nice blooms of Mrs. Hill and Marie Louise sold for 50 cents each, but they were choice.

There has been some cutting in prices, some which we think is unwarranted. One large establishment sold roses last Saturday at 50 cents per dozen, while another has advertised them to-day at 25 cents per dozen, and still another offered reduced prices for the Charity Ball, where only the elite go. In Minneapolis a dry goods store advertised roses on Saturday for 15 cents per dozen, and carnations at 10 cents. This general slashing of prices is unwarranted, as there has been no great surplus of any time. We deplore the action of some of our brethren in cutting prices to 25 cents per dozen. While in rare instances where flowers are plentiful such a sacrifice may be warranted it is in general to be deprecated, and if continued will hurt the trade more than anything else.

We regret not being able to report a chrysanthemum show for the Twin Cities this year, but as our florists' association is now an established fact we hope an other year to have as good a show as any of them. We have the plants and blooms and only need the organization to have a good exhibit.

Chas. Johnson is now with L. L. May & Co. in their city store.

Worcester, Mass.

"Mums"? Why, of course, any quantity of them and of any quality that you choose; Vivian-Morel, Col. Smith, Ivory and Mutual Friend are the cream of the lot just now. Price? Why, from fifty cents to four dollars per dozen, and we are selling a great many. Roses are good and plentiful. Lange is cutting some splendid Mermets and Perles; carnations are not coming in very large quantities, but the supply has been equal to the demand so far. Other stuff is in good supply and trade has been very good; prices have been very satisfactory, several large funerals helping to make things interesting.

One of the largest funerals we have had for some time, "floristically" considered was that of Ex-Mayor Winslow on October 24. Among the largest designs were an immense floral skate by Lange, and a six foot trolley car by Wm. H. Johnson.

The weather has been all that anyone could wish for, and we have yet to have our first hard freeze. A. H. LANGE.

Fresh Cut CHRYSANthemUMS.

Get your flowers direct from the grower. Lean furnish fine blooms from \$5.00 to \$12.00 per 100.

ADDRESS J. G. BURROW, Fishkill, N. Y.

CARNATION FLORETS

ALWAYS IN SEASON.

Chas. T. Starr,

AVONDALE, Chester Co., PA.

WE ARE MAKING A SPECIALTY OF THE

New Early Yellow Chrysanthemum MAJOR BONNAFFON.

Came in fine shape October 20, and sold at \$4 to \$6 per dozen in quantity on New York market. Selected strong stock plants (no eyes removed), 35c. each; \$3.50 per dozen.

Our stock of Carnations for commercial growers is unexcelled. We have some 10,000 stock plants of the **Bread** and **Butter** Carnation

WILLIAM SCOTT,

and will be able to produce a fine lot of cuttings without over-propagating. No grower can afford to be without this carnation, as it succeeds generally, and is a worthy successor to **Grace Wilder**.

(If you don't believe this is the pink to grow, ask **Great Scott of Buffalo**.)

We have also fine stocks of



Mme. Albertini, The Stuart, Lizzie McGowan, Daybreak and Thos. Cartledge . . .

And can fill early orders with first-class plants. We shall offer three new varieties this season which promise to prove valuable.

If you are in the market to buy carnation cuttings don't wait too long before arranging for the varieties you want, as we are apt to be sold out later in the season.

OUR STOCK IS WARRANTED AS USUAL.

THE COTTAGE GARDENS,

C. W. WARD, Manager.

Queens, L. I., N. Y.

"CHRYSANthemUMS."

We grow about FIFTY of the leading sorts.

We can supply

SPECIMEN flowers, any color, at \$25 per 100.

Medium sized flowers \$10 per 100.

Also CUT ROSES, as

PERLES, BRIDES, LA FRANCE, BEAUTIES, BRIDESMAIDS.

Address **NANZ & NEUNER, LOUISVILLE, KY.**

CHRYSANthemUMS

Stock plants, true to name, from bench or pots. Flowers cut.

MRS. E. G. HILL, QUEEN, NIVEUS, GOLDEN WEDDING, 20 cts. each.

MISS K. BROWN, IVORY, WANAMAKER, PRES. W. R. SMITH, MRS. R. CRAIG, J. H. TAYLOR, WHILLOIN.

MRS. E. D. ADAMS, LINCOLN, WIDENER, NEWETT, MADEIRA, BALSLEY, DOMINATION AND MOREL, at 15 cts. each.

Order soon, as stock will not be saved unless sold.

ROOTED CUTTINGS of first four, \$3.00 per 100; of others, \$2.50 per 100. Cash with order, except on large orders from persons known to us. No order for less than \$2.00.

W. J. & M. S. VESEY, 90 Thompson Ave., FORT WAYNE, IND.

NEW CHRYSANthemUMS.

Now Ready for Delivery.

A. H. Fewkes, Baron Hirsch, Charles Davis, Challenge, E. Dailedouze, G. S. Conover, G. Bramhall, Golden Hair, Heron's Plume, Inter Ocean, L'Enfant des Deux Mondes, Lady Playfair, Mrs. E. G. Hill, Major Bonnaffon, Mutual Friend, Mrs. J. George IIs, Marion Henderson, Pride of California, Pitcher & Manda, Prairie Rose, Robt. M. Gray, Sophia Sievers, Wm. Simpson, Yellow Queen, Maud Dean.

12 plants by mail for \$1 00. Cash with order.

MEREDITH B. LITTLE, Glens Falls, N. Y.

DO YOU KNOW . . . THAT YOU CAN GET

20 CANE STAKES FOR 1 CENT

A foot in length by simply using a sharp saw on a bundle of our best.

BRACKENRIDGE & CO., 304 W. Madison St., BALTIMORE, MD.

Grevillea Robusta.

Strong 2½-inch pots, 50c. per dozen; \$3.00 per hundred.

NATHAN SMITH & SON, ADRIAN, MICH.



YELLOW QUEEN—Best Early Yellow, strong plants.

HOLLY

It is conceded that the successful delivery of perishable stock in the best condition exactly when demand is active is secured only as the result of considerable experience and close study of all the controlling conditions. During the past ten years we have studied these conditions and have the experience. We have faith that we can supply "First-Class Stock on Time," and to prove our faith by our works, on all orders given us in season we will **Guarantee arrival** or no pay. We attempt no competition in price with stock which has never yet arrived, or—arrived after Xmas. "A Case of Holly in front of the store is worth four (4) on the cars."

NEW YORK,
26 Barclay Street.

VAUGHAN'S SEED STORE.

CHICAGO,
146-8 W. Washington Street.

GREENHOUSES, WESTERN SPRINGS, ILL.

Chrysanthemums.

Stock Plants for Florists.

EXTRA STRONG BENCH GROWN, EQUAL TO 6-INCH POT GROWN.

	EACH	DOZ.		EACH	DOZ.
Beau Ideal	\$ 50	\$	Joanna	\$ 50	
Challenge	5		J. C. Vaughn		\$3 00
Chas H. Miller		3 00	Lady Playfair	50	
Clinton Chalfant	50		Major Bonaffon	50	
Constellation	50		Marie Louise	50	
Domination		3 00	Maud Dean		3 00
Eiderdown	50		Mme. Marie Hoste		3 00
Enfant des deux Mondes		3 00	Mrs. E. G. Hill		3 00
Ermenilda		3 00	Niveus		3 00
Eva Hoyt		3 00	Pitcher & Manda	50	
Eugene Dailedouze	50		Pres. Wm. R. Smith		3 00
Flora Rummel		3 00	The Queen		3 00
Golden Wedding	50		Vivian Morel		3 00
Good Gracious		3 00	Waban		3 00
Harry Balsley		3 00	W. H. Lincoln		3 00
H. E. Widener		3 00	Yellow Queen	50	4 50
Ivory		3 00	Yonitza		3 50

Special discount on a GENERAL ORDER to meet any competition.

Green

Fresh Stock, full weight, prompt shipment, low prices.

WREATHING — We will meet the market at all times.

MISTLETOE — Per box 20 lbs., \$5.00.

Chrysanthemums.

Orders for Rooted Cuttings booked now.

- WHITE.**
MRS. F. BERGMANN, KATE BROWN,
IVORY, DE WITT SMITH,
MISS MINNIE WANAMAKER.
- PINK SHADES.**
ADVANCE, BRIDE OF ROSES,
ADA SPAULDING, HARRY BALSLEY,
MERMAID, FRANK THOMPSON,
ROSLYN.
- YELLOW.**
MRS. J. G. WHILLDIN, LINCOLN.
- RED.**
CULLINGFORDIL, GEO. W. CHILDS,
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- BRONZE AND TERRA COTTA.**
TUXEDO, HARRY MAY, OLGA.
\$1.50 per 100. 10c. per 100 extra by mail.
- PINK SHADES.**
VIVIAN-MOREL, W. R. SMITH, ADA LE ROY.
- WHITE.**
POTTER PALMER, THE QUEEN,
MRS. JEROME JONES.
- CREAM.—ED. HATCH.**
- YELLOW.**
DR. COUVERT, GOLDEN WEDDING,
CRAIGE LIPPINCOTT.
\$2 00 per 100. 10c. extra by mail.

S. J. REUTER, Westerly, R. I.

Stock Plants of "Mums."

- Ivory Each Dozen 15c. \$1.50
 KIOYO 10c. 1.00
 FREEMAN 10c. 1.00
 Orders booked now for rooted cuttings of Carnations.
- MILLBROOK LEA GREENHOUSES,**
 WHITFORD STATION PENNA. R. R.
 WEST WHITELAND P. O., Chester Co., PA.

FLORISTS' PINS.
 GLASS HEADS, IN BLACK, WHITE AND VIOLET.
AUG. F. BRABANT,
 54, 56 & 58 Warren Ave., New York.

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

YELLOW QUEEN CHRYSANTHEMUM.

The finest early variety ever introduced. (See this paper Oct. 13, page 245.)
MAYFLOWER, white, extra fine mid-season. **MINERVA**, clear yellow, extra fine mid-season.
 These two last named are now selling at a premium over all others in New York market.
 Good Stock Plants of the above, 50 Cents each.
 10 per cent. discount for cash for all orders over \$2.
 All the best varieties at reasonable prices.
JOHN N. MAY, Summit, New Jersey.
 Mention American Florist.

120 VARIETIES. 120

Stock Plants of Chrysanthemums.

Send your list of wants for prices. THE HIGHLAND FLORAL CO., DAYTON, OHIO.

CHRYSANTHEMUMS.
 FINE STOCK PLANTS OF
YELLOW QUEEN, MISS KATE BROWN,
 and other leading varieties.
 Prices on application.
STOLLERY BROS.,
 1003 Center St., Argyle Park, Chicago.

CHRYSANTHEMUMS.
 MRS. E. G. HILL, best early, large flowering, pluk, stock and 4-inch pot plants.....\$2 doz.; \$15.00 per 100
 2 1/2-inch pot plants 10.00 per 100
CLAS. DAVIS, golden sport from Vivland-Morel, suffused apricot, extra, stock and 4-inch pot plants.....\$2 doz.; 15.00 per 100
 2 1/2-inch plants..... 10.00 per 100
C. CHALFANT, golden sport from J. W. White. Stock and 4-inch pot plants.....\$1.50 doz. 10.00 per 100
 2 1/2-inch plants..... 7.50 per 100
WM. TRICKER & CO., Clifton, N. J.

E. G. HILL & CO.,
Wholesale Florists
RICHMOND, INDIANA.
 Mention American Florist.

STOCK PLANTS EARLY CHRYSANTHEMUMS.
 MRS. F. BERGMAN, best and earliest white, cut Oct. 4, 1894, price 25c. each.
 MRS. E. G. HILL, best early pink, cut Oct. 13, '94, price 25c. each.
YELLOW QUEEN, best early yellow, cut Oct. 6, '94, price 50c. each.
 Minerva, Autumn Eye, H. L. Sunderbruch and Bessie Cummings, 30c. each; \$5.00 per dozen.
 The plants are dug from bench after having bloomed. Strong plants. Cash with order.
DAILEDDOUZE BROS., FLATBUSH, N. Y.

STANDARD
New and Old Chrysanthemums
 Propagated from **FIELD-GROWN STOCK** in cold houses. Price list on application.
"MISS KATE BROWN." Earliest pure white, in quantity, at special rates.
JOHN CURWEN, Jr., Villa Nova, Del. Co., Pa.

CHRYSANTHEMUMS
 Fine stock plants of
MRS. E. G. HILL, QUEEN, IVORY,
 and 50 other varieties.
 Send for list. **PARKSIDE FLORAL CO.,**
 W. C. Cook, Supt. 70th & Adams Ave., CHICAGO.
 Mention American Florist

Cincinnati.

We cannot report any special improvement in business during the past week; prices remain unchanged and demand hardly equals the supply. Beauties remain firm, and all good stock is sold. Carnations are getting much better, stock in the market piling up, and chrysanthemums now have full sway, but at low prices in comparison with former years. Magrie & George are now sending in some choice lily of the valley.

Fred Walz had a funeral decoration a little out of the ordinary recently. The casket was trimmed with lily of the valley and Asparagus plumosus; at the grave the earth was covered with ferns, through which chrysanthemums were used profusely. A basket composed of "mums," carnations and roses was constructed to fit over the grave after the same was filled. The effect was beautiful. He also had several set pieces.

L. H. Kyrk & Co. had a decoration for the Baron Van Horn-Weimar wedding, which was done exclusively in pink roses, as Rose was the bride's name. J. A. Peterson also reports several wedding decorations of chrysanthemums.

One would think that the chrysanthemum was as near perfection as it could be, but the seedlings this year seem better than ever. A Kentucky grower heretofore unknown comes to the front with four new seedlings. No. 1 is yellow, early as Miss M. M. Johnson, a dwarf grower with foliage extending to the bloom, the blooms on the same order as Miss Johnson; No. 2 is a good yellow, medium sized flower, but later, no improvement over existing kinds; No. 3 is a white, on same order as Marie Louise, but no better; No. 4 is the best, a pure white, same style as Queen, equally as large, but does not show the center, which is an improvement; we think this flower will be an acquisition.

W. S. Bell of Lexington, Ky., was in the city recently. Mr. B. gives a chrysanthemum show commencing the 6th and continuing throughout the week. He reports business good and says his show is of great advantage to his trade.

Mr. Killen, representing Z. De Forest Ely, was in the city during the week.

The growers having stands in the Jabez Elliott Flower Market will give a free show and sale of "mums" in said market commencing November 14 and continuing through the week. From preparations being made we shall expect something pretty nice, and trust our florist friends will make us a visit during that week. G.

ALWAYS mention the AMERICAN FLORIST when writing to advertisers.

PALMS.

150,000 of all the leading varieties.

FERNS.

50,000 of leading varieties.

Address **GEORGE WITTBOLD,**
1708 N. Halsted St., CHICAGO.

Two Year Old Roses.

FINE LARGE PLANTS. Per 100
BRIDE and MERMET..... \$8.00
PERLE and SUNSET..... 9.00
GONTIER and SOUPEUR..... 8.00
LA FRANCE and WHITE LA FRANCE..... 8.50
And all other standard varieties. Send list for prices. Also immense and fine line 2 1/2-inch pot roses. Finest Rex Begonias, 3-in. pots, \$5.00 per 100.
TERMS CASH WITH ORDER.

THE NATIONAL PLANT CO., Dayton, O

Prizes Awarded REINBERG BROS.

at the Chicago Show,

On the following Roses exhibited Monday, November 5th and Wednesday, November 7th:

Prizes.

- 50 Perle des Jardins 1st and 2nd
- 50 Kaiserin A. Victoria 1st and 2nd
- 50 Brides 1st
- 50 Bridesmaids 1st
- 50 La France 1st
- 50 Meteors 1st
- 50 C. Mermets 1st and 2nd
- 50 Meteors 1st

Four other entries to compete against.

REINBERG BROS.,

51 Wabash Avenue, CHICAGO.

THE WONDERFUL NEW ROSE

"CRIMSON RAMBLER."

"300 BLOOMS ON ONE SHOOT."

Fine plants from 2 1/2-inch pots now ready

— \$20 PER 100 TO THE TRADE. —

Descriptive circular and handsome colored plate free.

ELLWANGER & BARRY,

Mt. Hope Nurseries, Rochester, N. Y.

Two Year Old Roses, \$5.00 per 100.

Souper, Ball of Snow, La France, White La France, Meteor, Mary Washington, Albany, Bridesmaid, Etoile de Lyon.

Roses from 3-in. Pots, \$3.00 per 100.

Souper, Meteor, Marie Guillot, Safrano, La France, F. Kruger, Mme. Margo tin.

Double Ivy Geraniums in varieties, 3 in. with cuttings, \$3.00 per 100.

Verbenas, 2 1/2 in. with cuttings, \$2.50 per 100.

White Swan, pure white, fragrant, Beauty of Oxtou and Purpurea.

Pelargonium, Victor, 2 1/2-in. pots, \$6.00 per 100.

Metallica Begonia, 2 1/2-in. pots, \$3.00 per 100.

JOHN A. DOYLE, SPRINGFIELD, OHIO.

5,000 General Jacqueminot ROSE PLANTS,

on their own roots, well branched, 2 1/2 to 3 1/2 feet high. \$10.00 per 100

Sample of eight for \$1.00.

JORDAN FLORAL CO.,
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Hybrid Perpetual Roses,

Worked low on the Manetti Stock, offer the best results to the florist, blooming freely and giving plenty of cuttings for propagating quickly. Fine plants for sale by the 100 or 1000, at low rates.

Price Lists to applicants. Address

WILLIAM H. SPOONER,
JAMAICA PLAIN, (Boston), MASS.

ROSES.

Clean, healthy stock.

MERMETS, BRIDES, MME. WATTEVILLE.

Strong plants, from 3-inch pots, \$5 per 100.

BRIDESMAIDS, METEORS.

Strong plants, 3-inch pots, \$6 per 100.

WOOD BROTHERS, Fishkill, N. Y.



TRY DREER'S GARDEN SEEDS,

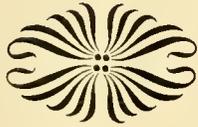
Plants, Bulbs & Requisites. They are the best at the lowest prices. Trade List issued quarterly, mailed free to the trade only.

HENRY A. DREER,
Philadelphia, Pa.

CARNATIONS.

ROOTED CUTTINGS

From **SELECTED STOCK:**



	PER 100	PER 1000
WM. SCOTT,	\$3.00	\$25.00
LIZZIE McGOWAN,	2.50	20.00
THE STUART,	5.00	40.00
ALBERTINI,	3.00	25.00

These cuttings will all be from selected stock, and will have been transplanted into soil before being sent out.

READY ON or BEFORE FEB. 1, 1895.

Unknown correspondents will please send cash with order.

CHARLES H. ALLEN,
. **Floral Park, N. Y.**

CARNATIONS

After the early chrysanthemums are thrown out many florists plant carnations. We have a few thousand good plants heeled in in cold house suitable for this purpose which we offer, to close them out, at

\$4.00 PER 100.

PORTIA. GARFIELD.

J. L. DILLON,
 BLOOMSBURG, PA.

W. R. Shelmire,
 AVONDALE,
 Chester Co., PA.

CARNATIONS AND COLEUS.

NEW AND TESTED
CARNATIONS
OUR SPECIALTY.

FISHER & AIRD,
 ELLIS, NORFOLK Co., MASS.

CARNATIONS.
 AMERICAN BEAUTY, strong plants.
A. S. MacBEAN, Lakewood, N. J.

Will Exchange, or Sell Very Low.

Amaryllis Crape Myrtles, Magnolias, choice Double White Hollyhock Seed, best stock Chrysanthemums, true to name; Lavender, Caladiums, Canfias, Ampelopsis Veitchii, and Cuthbert Raspberries. **WHAT HAVE YOU?**
M. R. CATLIN, Richmond, Va.
 Mention American Florist.

GOOD FIELD PLANTS

— OF —

Sweetbrier Carnation.

\$15.00 PER 100.

Other varieties on application. . . .

EDW. SWAYNE,
 KENNETT SQUARE, PA.

New Carnations our Specialty

FRED. DORNER & SON,
 FLORISTS,

LA FAYETTE, : : INDIANA.

CARNATIONS
 ROOTED CUTTINGS
 now ready, of desirable kinds for **EARLY**
SUMMER BLOOMING.

Seedlings, Novelties and Standard sorts in season.
C. J. PENNOCK,
 The Pines. KENNETT SQUARE, Chester Co., PA.

THE COTTAGE GARDENS,
Queens, Long Island, N. Y.
WHOLESALE CARNATIONS.

CARNATION MRS. FISHER, IMPROVED.

By a careful selection of propagating stock for over four years, I have succeeded in removing the objectionable points that are hovering over this grand Carnation. It is a vigorous grower, a profuse bloomer, bears large, pure white single flowers in long, stiff stems. Is an excellent summer bloomer, and with me has always been free from disease. Am growing it exclusively, with the exception of Grace Wilder.

Rooted Cuttings of Mrs. Fisher, \$2.00 per 100.
 Grace Wilder, 80c. per 100.

Charles Everding, Branford, Conn.

CARNATIONS

Strong plants in cold-frames.

Blanche, Richmond, Dawn, Mrs. Hitt, Mrs. Reynolds, Lamborn, Garfield, Golden Gate, White Wings, Purdne, Spartan, Attraction, Nellie Lewis, White Dove, Louise Porsch, \$4.00 per 100.

MARIE LOUISE VIOLETS, from 2-inch pots, \$2.50 per 100; \$20.00 per 1000.

TERMS CASH WITH ORDER.

JOSEPH HEINL, Jacksonville, Ill.

CARNATIONS

MRS. E. REYNOLDS \$8.00 per 100
 BUTTERCUP 6.00 "
 WILDER, HINZE's and others 5.00 "
 CYCLAMEN, 3½-inch pots 6.00 "
 GENISTAS, 5-in. pots, nice stocky plants 12.00 "
 SMILAX, 2½-inch pots \$12.00 per 1000
 Address **J. G. BURROW, Fishkill, N. Y.**

CARNATIONS.

Rooted Cuttings, Young Plants, Field-Grown Plants in season. Send for prices.
Geo. Hancock & Son, Grand Haven, Mich.

Technicalities in Judging a Flower Show.

Rules are given, classes are arranged and the whole minutiae is furnished with the idea of serving the best interests of all concerned, and yet wording is often ambiguous, and *might* mean more or less if it was one's own desire to so interpret the same.

If you are at all in doubt ask the superintendent, and he will set you on the right track. Carefully read rules and regulations, and accept the conditions offered if you see fit to enter as an exhibitor.

When a premium calls for fifty blooms only fifty should be shown; that appears to be simple enough prima facie evidence; but isn't *always* so simple as it looks. Pot plants average a *little* over measurement of pot required; one or two varieties *may* be substituted just to fill out properly, giving a better finish to the whole, and *how* rigid must you draw the line, and observe the "spirit" and "letter" both?
R.

Toronto.

"Mums," "mums" everywhere. The butcher, the baker and the grocery man have got them, every one has got them. And how beautiful they all look too, and what an improvement in the quality of them. When one looks back ten or twelve years and thinks of what used to be grown at that time it brings before one the rapid strides horticulture has made in this country during those years. As to prices, however, mum's the word, although really good bloom fetches a fair price.

There will be a reading room for the boys in the Pavilion during the show with copies of all the leading horticultural papers on the table and if I might make a suggestion I would recommend that it be used as a place where those who are dissatisfied with the decisions of the judges or anything else can give vent to their fulminations without fear of being overheard. This should, however, only be on the first day's program, after that the room should be given up to the reception of visitors, sociability and self-edification. The weather still keeps comparatively mild with a slight frost now and then, no snow has fallen yet—geraniums, cannas, etc. are still alive although the leaves have nearly all fallen off the trees.

About twenty of the boys will go to Hamilton on Wednesday the 7th. The ambitious city grows some tip top chrysanthemums and a good show is expected.
E.

Must Have 'em Earlier.

Here is my latest chrysanthemum yarn: "Mister, 'ave ye got eny of them big white chrys-e-antheums—or whate yees call 'em," blubbered out a big Irish woman in no gentle tones. "Not to-day, ma'am—will have them early next week without doubt." "An' its a funeral we be after havin' at our house, mon, and does yees think we'll be putting it off, just to have them things? Mon, ye've no sinse at all; I'll be going somewhere else."

Oct. 31, '94. G. P. R.

WINONA, MINN.—A chrysanthemum show is being held here by St. Paul's Guild. The leading exhibitors are John Wunder, E. S. Youmans and the Woodlawn Cemetery Greenhouses.

CEDAR FALLS, IA.—A chrysanthemum show will be held here November 14 to 16 under the direction of Jos. Bancroft. The proceeds will go to the building fund of one of the churches.

CHAS. D. BALL, HOLMESBURG, PHILADELPHIA, PA.
Palms, Etc.

A FULL STOCK IN THE BEST CONDITION POSSIBLE. STOUT, PERFECT PLANTS. ALL SIZES, UP TO ELEGANT SPECIMENS, AT REASONABLE PRICES. If you do not know the quality of my plants try some. There are none better. Price List on application. MENTION THIS PAPER.

ARECA LUTESCENS THE MOST GENERALLY USEFUL **PALM**
in commerce. We have them in all sizes, and Prices to suit.
CERTIFICATE OF MERIT was awarded for this sterling **Decorative Plant** at the convention held at Atlantic City, August, 1894. Send for price list.
— EDWIN LONSDALE, WYNDMOOR STATION, Phila. & Reading R. R. from 12th & Market Sts., PHILA.

FERNS.

... Strong Plants

in 2 and 2½-inch pots, just right for fern dishes, etc.; four choice varieties, our selection,

\$3.50 PER 100. Cash with order.

DAVID GLIFFE,

Main & Johnson Streets,

GERMANTOWN, Phila., PA.

Order Now.

Ready by November 15th, fine lot of

Double White Primulas

In 4-inch pots; will bloom this season. For florists short of white carnations no better substitute can be grown.

CASH WITH ORDER.

PRICE PER DOZEN \$ 1.50
" PER HUNDRED 10.00
50 at hundred rates. Write for special prices in large quantities.

Address **WM. ROETHKE,**
1717 Gratiot Street, SAGINAW, W. S., MICH.

JAPANESE IRIS,

A splendid collection.

PHLOX,

In bright desirable colors.

PEONIES,

Choice varieties.

Send for Catalogue and special trade prices.

OASIS NURSERY CO.,
Thos. Griffin, Mgr. Westbury Station, L. I., N. Y.

CLEMATIS..

FOR FALL DELIVERY.

Special prices at wholesale, on application. Splendid stock and assortment.

DOZEN, \$3.00; 100, \$22.50.

F. A. BALLER, Bloomington, Ill.

10,000 CINERARIAS

Grown from seed that has no superior, composed of the most brilliant and dazzling colors in existence.

2½-inch.....\$ 2.50 per 100
3-inch..... 4.00 per 100

CASH WITH ORDER.

S. WHITTON & SONS, Wholesale Florists,
9 and 11 Roberts Street, UTICA, N. Y.

Plants AND Cuttings.

ACHYRANTHES, ALTERNANTHERA,
COLEUS, CARNATIONS,
CUPHEA, GERANIUMS,
AND SOME OTHER STOCK.

We have no price list. Will quote prices here when ready to ship, or on application.

S. O. STREBY,

Lock Box 77,

UPPER SANDUSKY, OHIO.

CYCAS REVOLUTA.

Orders booked now for fresh imported stems, fronds and roots cut off; best long-leaved variety. Delivery Feb. 1st to April. Cultivated Cycas always on hand, rooted and well established

Lil. Auratum, Spec. Rubrum and Album, Etc.
Iris Kämpferi, in 100 choice varieties.
Japanese Maples, in best varieties.
Camellias, Paeonies, Tree Ferns, Raphis, Etc.
Araucaria excelsa, choice cultivated stock at lowest prices.

For general Japanese stock apply to

F. Gonzalez & Co.,

303 to 312 Wayne St., SAN FRANCISCO, CAL.

25,000 PEONIES.

IN ALL COLORS.

Per 100
PINKS, assorted \$10 00
OLD RED or CRIMSON 12 00
WHITES, assorted 15 00
DOUBLE TENUIFOLIUM 35 00

Clematis, Iris Kämpferi Yucca filamentosa and other hardy stock for florists' use.

Bouquet Green and Wreathing, now ready. Holly, December 5th.

Order now for the HOLIDAYS.

THE JAMES KING SEED CO.

98 Lake Street, CHICAGO.

VIOLETS.

Marie Louise,

strong, field grown plants. Healthy stock.

ANDREW WASHBURN, Bloomington, Ill.

TREES, TREES, TREES.

For Avenue and Street planting including an immense stock of
MAPLES, ELMS, POPLARS, LINDENS, OAKS,
in variety, of medium and large sizes. Estimates furnished.

THE WM. H. MOON CO.,
MORRISVILLE, PA.





Wisconsin Flower Exchange FOR Chrysanthemums and VIOLETS, We are the People.

All kinds of "MUMS" always on hand.

ALL COLORS. ALL SIZES. ALL PRICES.

Roses, Carnations, Valley, and all other Flowers. **Fine stock.**

BOUQUET GREEN Now Ready. AZALEAS Now Ready.

WISCONSIN FLOWER EXCHANGE, 468 Milwaukee Street, MILWAUKEE, WIS.

LITTLE'S ANTIPEST.

Valuable Discovery of the 19th Century.

SILVER MEDAL AWARDED

— BY THE —
CALIFORNIA STATE FAIR OF 1890.

This preparation is a sure destroyer of the **Scale, Woolly Aphis** and **Insect Pests** of any and all descriptions. It may be as freely used in the conservatory, garden and greenhouse as in the orchard or vineyard. It is non-poisonous and harmless to vegetation when diluted and used according to directions. It mixes instantly with cold water in any proportion. It is **Safe, Sure** and **Cheap**. No fruit grower or florist should be without it.

Send for Circulars and Price List.

R. W. CARMAN, General Agent,
291 AMITY STREET,
FLUSHING, Queens, Co., N. Y.

GERANIUMS. Rooted Cuttings.

The **BEST** of the **BETTER** sorts, all good standard bedding varieties. Not one that is not A No. 1.

Labeled . . . \$1.50 per 100; \$12 per 1000.
Without Labels \$1.25 per 100; \$10 per 1000.

CARNATION CUTTINGS in season.

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L. B. 496, LANCASTER, PA.



*Gardiner's Celebrated
English
Mushroom Spawn.*
Fresh and Reliable.
\$7 per 100 lbs.
Special price on larger quantities.
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should have our new Trade List for Autumn 1894. Contains one of the largest and finest assortments

OF
**ORNAMENTAL TREES, SHRUBS,
VINES and SMALL FRUITS.**
Send for one.

THE WM. H. MOON CO.,
Morrisville, Pa.

BOUQUET GREEN, HOLLY.

We are headquarters on these, and can make Bottom Prices on **single cases, tons or carload lots.** Please send us a list of your wants to figure on.

EVERGREEN WREATHING.

Well Wound, made out of strictly prime stock.

Medium Heavy Grade.....\$3.50 per 100 yards; \$30.00 per 1000 yards
Extra Heavy Grade..... 5.00 " " 45.00 " "

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186 E Kinzie St., CHICAGO.



FANCY.



DAGGER.

EVERGREEN CUT FERNS

ESPECIALLY FOR FLORISTS' USE.

\$1.25 per Thousand Ferns.

IN LOTS OF 5,000 AND UPWARDS, \$1.00 PER 1000. Ferns furnished the year round. Special attention given to supplying the Wholesale Trade. Write for prices.
BOUQUET GREEN For Holiday Trade, \$2.00 per barrel (thirty pounds); or \$6.00 per hundred pounds. Special reduction in express rates.
SPHAGNUM MOSS a specialty. Long, clean fibre, dry or green, \$1 per barrel, or six bbls. for \$5. Write for terms on large lots. Terms cash, or goods will be sent C. O. D.
CHRISTMAS TREES. American White Spruce, much better shape and color than the Blue Spruce, also Balsam Fir from 3 to 30 feet high. Special attention to supplying carload lots. Write for price list and terms.



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*Absolutely Reliable
Automatic Machine,*

which may be set to operate at any temperature, and give any quantity of air desired for each degree temperature rises above desired point.

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can plants be overheated or chilled where they are used, as they make ventilating sash more sensitive to change in temperature than the most sensitive thermometer. **TRY THEM.**

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Done with expert ability for Florists
Nurserymen, Seedsmen. Write to

J. Horace McFarland Co.
HARRISBURG, PA

Mention the American Florist when writing to advertisers on this page.

News Notes.

CARRICK, PA.—Wm. Lauch is adding two new houses to his plant, each 20x150 feet.

WEST GROVE, PA.—Koney Bros. have built two new houses, one 16x80 and one 8x80.

BUTTE, MONT.—Mitchell & Cobban have leased the greenhouses of Mrs. D. J. Knox.

ALLEGHENY, PA.—Johh Bader has just finished two new houses, one 20x100 feet and one 10x100 feet.

LOS ANGELES, CAL. florists report an excellent fall trade and anticipate a good business for the winter.

OMAHA, NEB.—Otto Buseck, florist and landscape gardener, 1918 South Eleventh street, will establish a cut flower store at 16th and Douglas.

LONDON, ONT.—J. Gammage & Sons had a "fall opening" floral exhibit at their store 213 Dundas street September 20. No flowers were sold.

IOLA, KANS.—A. L. Harmon has added a new house 18x30. He will hold his fourth annual chrysanthemum show in the opera house November 15 to 17.

BELLEFONTE, PA.—Mr. Geo. Baldwin has opened a floral store here and is building a greenhouse 20x60 for decorative plants. He will handle cut flowers, plants, bulbs and seeds.

TRENTON, MO.—The 37th annual meeting of the Missouri State Horticultural Society will be held here December 5 to 7. Programme may be had on application to the secretary, Mr. L. A. Goodman, Westport, Mo.

PRINCETON, KY.—R. R. Satterfield has completed two greenhouses 16x80 on the short span to the south style; they will be devoted to forcing roses and carnations. He reports good prospect for the coming winter's business.

MAYFAIR, ILL.—Henry Keller has gone into business here, and will grow for the Chicago market. He has built a block of three connecting equal span houses 21x125, and one carnation house 17x125, short span to the south. Everything about the place is in improved modern style.

MARYSVILLE, MO.—Mr. M. E. Mergen has purchased a piece of land in the heart of the city, 44x132, for \$1,500 cash and has erected one rose house, one plant house, one vegetable house, and will remove his present two houses there too. He also contemplates building a palm house 40x20.

JOHNSTOWN, PA.—Adolph Stahl has bought 2½ acres of land in the village of Fremont, opposite Grand View Cemetery, upon which he has built four greenhouses 20x80, one 10x80 and propagating house 6x32. Also office 16x88 and dwelling house and stable. Mr. Stahl bought out his partner's interest in the old firm about a year ago and has since conducted the business alone.

M. RICE & CO.,
Florists' Supplies,
23 & 25 N. 4th St., PHILADELPHIA, PA.
Send for Catalogue.

JARDINIERES, FLOWER POTS, LILY BOWLS, FLOWER HOLDERS and Novelties in Porcelain.

In connection with our Cactus trade we sell thousands of these flower pots, manufactured especially for us in China and Japan.

We can offer them to the trade at prices defying competition.

Many designs are made exclusively for us, and can not be had elsewhere. Our collection can not be equalled in the United States.

50 New Designs afloat now.
Send for Illustrated Price List.

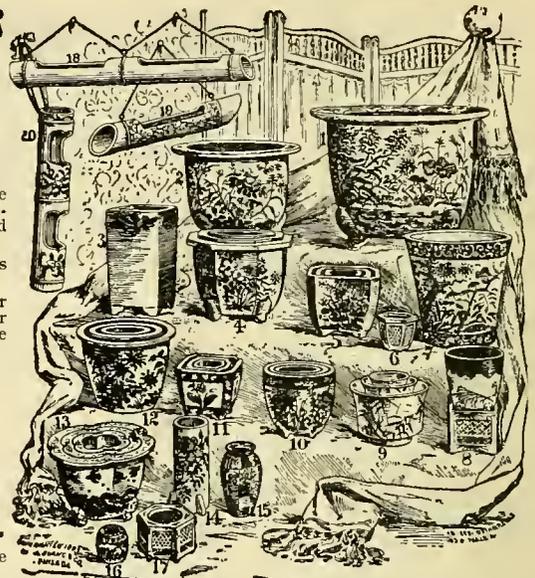
A. Blanc & Co.,

314-316 N. 11th STREET,

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Catalogue of 1000 Cuts for florists' use in printing stationery, 25 Cents.

NOVELTIES IN PLANTS, such as new Bougainvillea, new Abutilon, new Caryopteris, new Solanum, new Shoblianthus, new Peperomia, Thyracanthus. New Cannas (bargains).
NEW CRIMSON RAMBLER ROSE, 10,000 ready for delivery Dec. 1st, at \$15.00 per 100.



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Medal Awarded at the World's Fair.
And Highest Award Wherever Exhibited.

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THE BEST.

These Letters and Designs are made of the best Immortelles, wired on wood or metal frames, having holes drilled in them to insert tooth picks, by which they are fastened in the design. Give them a trial. You will find these goods to be superior to any in the market.

2-inch Letters, \$2.50 per 100.
Postage, 15 cts. per 100.

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Cut Flower BOXES

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¼, 5-16, ¾, ½, ⅜, ¼, and ⅛-inch square, cut to lengths wanted.

When asking prices state sizes of boxes or stakes and quantity wanted.

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Your customers home from Europe and all the summer resorts. Are you ready for them? Have you worked off those old remnants of last season's stock, cleared up the shelves and show cases and filled up anew with Fresh, Novel, Up-to-Date, 1894 goods? If so, then you are on the right track. If not, then you should

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Make no mistake If you want Baskets and Jardinieres of the latest patterns; if you want Sheaves of full weight and properly made; if you want Doves that look like doves and not like caricatures; if you want Letters, Dried Flowers and Grasses, Pot Covers, Ribbon Inscriptions; in fact anything that goes to make up the necessary stock in trade of an enterprising florist.

We can suit you.

This is our business and we understand it. This is why we are busy all the time while others are complaining about dull times.

Send for our New Catalogue, just out and overflowing with good things.

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FLORIST,

Wyndmoor.

Chestnut Hill.

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MY DEAR SIR:

Please send me at your early convenience: 1 barrel grape dust; 5 gallons ready mixed white paint, by either the Reading R.R. system or the Penna. R. R., and very greatly oblige, Yours truly,

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Grape Dust kills Mildew on Roses; prevents the spread of rust, etc.

Slug Shot annihilates *Sow Bugs* and snails, etc,

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Tobacco Extract Conc. kills aphids, spider, etc. **Thrip Juice** kills scale.

These goods are sold by the Wholesale Seedsmen of America. For Paint, Putty or Glass delivered at your R. R. Station, your trade is solicited.

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Cape Flowers, Grasses and Plumes, DYED ALL COLORS.

Prompt, first-class work. R. H. COMEY, Camden, N. J.

DYE WORKS: Jefferson, Master and Paul Street.



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Sizes, 1/2-inch to 42 inches diameter. The making, vending or use of any Serviceable Armored Wire Bound Hose not of our manufacture is an infringement on one or more of our Patents. The rights secured to us render each individual dealer or user responsible for such unlawful use with all the consequences thereof. For prices and discounts address WATERBURY RUBBER CO., Sole Mfrs and Owners of all the Sphincter Grip Armored Hose Patents, 49 Warren Street, New York.

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Guaranteed to give satisfaction if directions are followed. Put up in packages with full directions, to sell at 25c., 50c. and \$1.00 per package. Discount to the Trade.

Send for descriptive circular and price list with discount. Address HERMANN RÖLKER, Room 3, 218 Fulton Street, NEW YORK. MANUFACTURERS SOLE AGENT.

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To be applied with a bulb. The only putty made to work this way for greenhouse sash.

PUT UP IN 20 lb. CANS.

Has been used by florists in this city for years. Try it and you will use no other.

Read the following good report of our Green House Putty:

PITTSBURGH, PA., September 1st, 1894. We have been using the T. H. Nevin Co.'s Green House Putty for some time, and are pleased to recommend it to all those who wish a number one article. It has always given us perfect satisfaction. When you use this Green House Putty you will be sure of good results from same. Signed:

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Corroders of STRICTLY PURE LEAD, P. O. Box 928, PITTSBURGH, PA.

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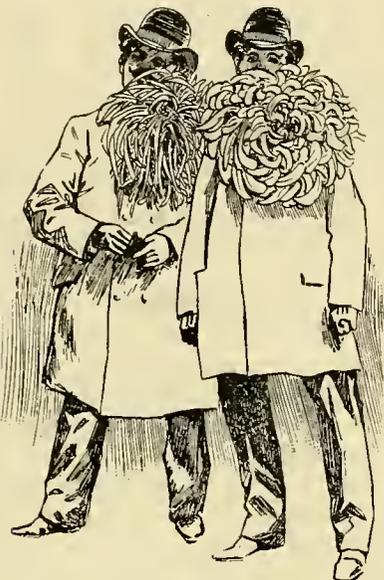
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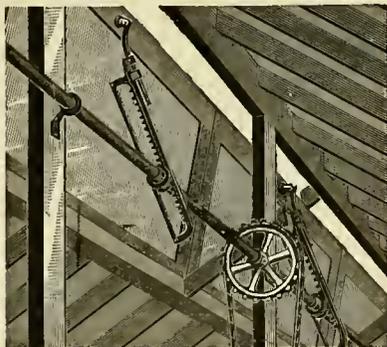
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GLASS

which is absolutely perfect for modern greenhouse construction.

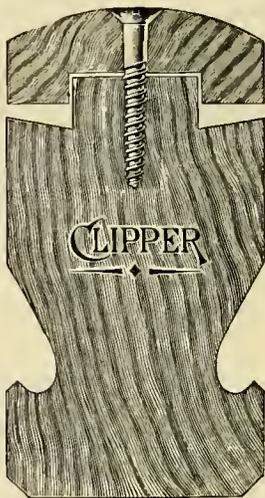
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Send for Estimates. Satisfaction Guaranteed

REED GLASS CO.,

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"Proof of the Pudding"

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Gentlemen:—It affords me a very great deal of pleasure to say a good word for people who really do deserve it. You are the first and only lumber men I ever dealt with that came any ways up to the mark. I have tried quite a number of lumber men. I have been buying lumber for greenhouses for the last twenty-two years, and in all that time I never succeeded in getting the quality or the peculiar shapes and good workmanship, which I was always anxious to have, until I began to buy from you about seven years ago. If there is such a thing as spot clear Cypress free of sap and knots, you surely sell it. I know of what I speak, because I have been in the lumber business myself. I have bought nine different shipments of you and I do believe the last lot was better than the first.

Very truly yours, CHAS. T. SIEBERT.

GUTTER MATERIAL, RIDGES, SASH, ETC.
The finest CLEAR CYPRESS used.

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STANDARD FLOWER POTS

Every user of Flower Pots should correspond with us before purchasing elsewhere. Our facilities are unequaled.

A. H. HEWS & CO., N. Cambridge, Mass.

Announcement to Florists.

We desire to announce the dissolution of the firm of Sipple Dopffel & Co., and to introduce to the trade its successor, The Syracuse Pottery Co., which will be under the management of William Dopffel and Conrad Breitschwerth. The business will be conducted as heretofore, except on a larger scale to meet the growing demand for our goods. We have accordingly enlarged our plant and capacity, and with unsurpassed facilities are now prepared to fill the largest order on short notice. Our latest improved machines are turning out the best and most serviceable flower pots in the market, and assuring you of our intention to lead in further improvements we solicit a continuance of your patronage in the belief that we can supply just what is needed at a price and in a manner satisfactory to all.

Send for price list and samples and we know you will give us an order.

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Death to Aphis, Red Spider, &c.

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2	3.25	7	35.00
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3 1/4	7.25	11	15.00
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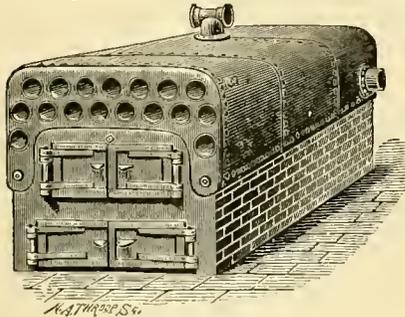
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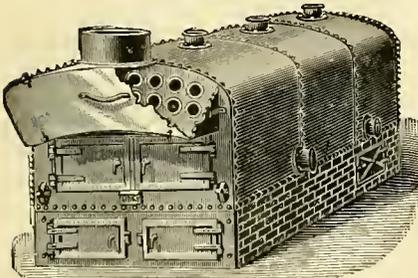
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Wrought Iron Hot Water Boilers.



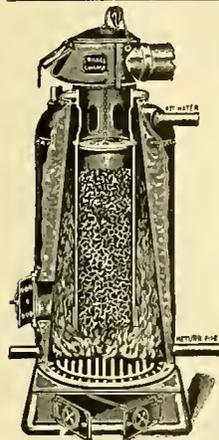
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Greenhouse * Boiler,
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Boilers made of the best of material, shell, firebox sheets and heads of steel, water space all around (front, sides and back). Write for information.



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All Steel. No Coils or Cast Iron Sections.
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DO IT NOW.

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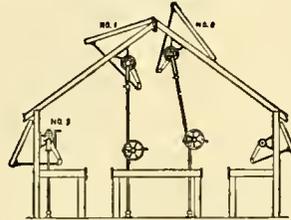
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The florist's friend in working and prices.



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Opens Sash uniform on 100 foot houses. A new device.

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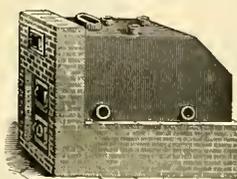
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GLASS. ROCK BOTTOM PRICES Send for Estimate. Satisfaction Guaranteed.
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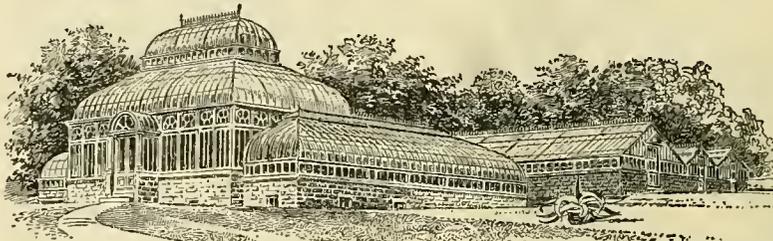
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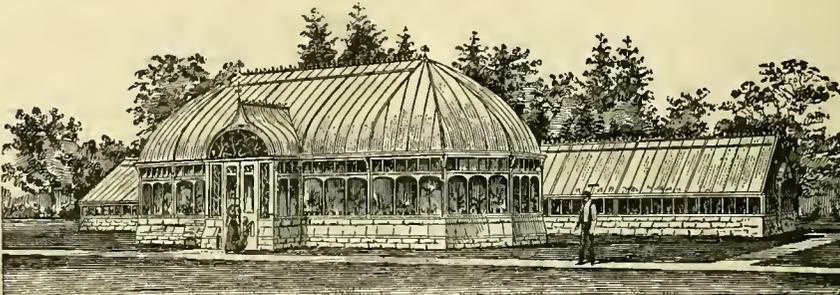
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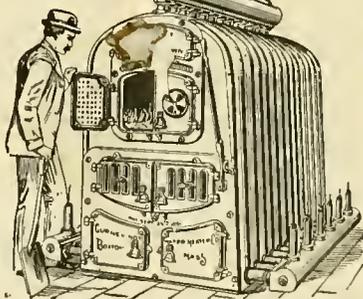
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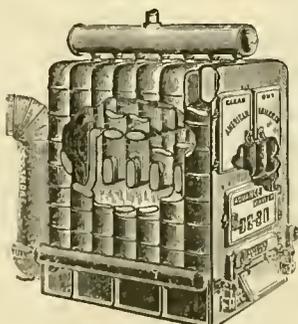
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The Chrysanthemum Show in Tokio.

CHICAGO ILL., Nov. 2—To the Editor.—In view of the fact that the chrysanthemum show is now open in this city, it may be of interest to know a little about the greater chrysanthemum exhibit in the land of chrysanthemums. The following item from the *Japan Mail*, of Yokohama, shows that the floral scenes are especially timely, and estimates that Dango-zaka must be an unusually interesting place this year: "Particulars concerning the unusual fine display to be expected this year at Dango-zaka, Tokio, in which reference has already been made in these columns, are now published by the metropolitan journals. The four largest exhibitors are the well known florists, Ueso, Ueju, Ue-nme and Tane-han. The principal scenes that they will florally depict are as follows:

"Ueso—(1) Lieutenant Gunji's party in their first exploring tour after landing on the Kuriles; (2) The death of Captain Matsuzaki in the battle of A-San; (3) An episode from one of the old monogatari. [Story hooks.]

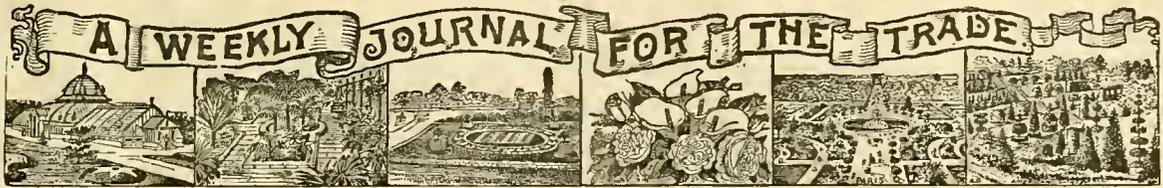
"Ueju—(1) Minister Otori at the gate of the palace of the Korean King, threatened by the native troops; (2) The battle at A-San; (3) A skirmish in the street of Seoul.

"Ue-nme—(1) Muister Otori holding his final meeting with the Chinese Resident Yuan; (2) Battle of A-San and the fight of the Chinese troops.

"Tane-han—(1) The naval engagement of Phung-dog; (2) The sinking of the Kowshing; (3) A scene from Kawakami's melodrama at the Asakusa Theatre; (4) Battle of A-San and spoliation of the Chinese encampment.

"Judging from the above the show ought to be superior to anything that has yet been done, and the vernacular press assures us that this will actually be the case."—Ernest W. Clement in *Chicago Inter Ocean*.

THE AMERICAN FLORIST



America is "the Prow of the Vessel; there may be more comfort Amidships, but we are the first to touch Unknown Seas."

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SOCIETY OF AMERICAN FLORISTS.

J. T. ANTHONY, Chicago, president; ROBERT KIFT, Philadelphia, vice-president; WM. J. STEWART, 67 Bromfield St., Boston, Mass., secretary.

The new officers to be installed Jan. 1, 1895, are: EDWIN LONSDALE, Chestnut Hill, Philadelphia, president; E. O. REINEMAN, Allegheny City, Pa., vice-president; WM. J. STEWART, Boston, secretary; H. B. BEATTY, Oil City, Pa., treasurer. The 11th annual meeting will be held at Pittsburg, Pa., August, 1895.

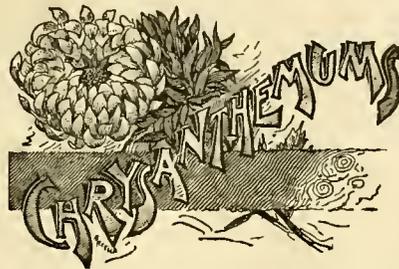
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THE BEST TIME to set out a plant is immediately after it is taken up.

WAPPINGER'S FALLS, N. Y.—The entire stock in the greenhouses of H. F. Garrison has been sold to Mr. H. F. Goring.

CEDAR RAPIDS, IA.—I. N. Kramer & Son are building a violet house 6x100. They cut their first Harrisii lilies October 24.



THE EXHIBITIONS.

St. Louis.

The fourth annual chrysanthemum show under the auspices of the St. Louis Florists' Club opened on the evening of November 6 in the art rooms and corridors surrounding Sculpture Hall in the Exposition Building. The change of quarters from the vast expanse of Grand Music Hall to the smaller spaces was most marked and detracted vastly from the first appearance of the exhibition. This was more than made up for, however, in the various and improved staging and arrangements permitted by the abundant wall space, and also the ability of separating rooms not in use and leaving them in the possession of the exhibitors until the display as a whole was complete. The latter feature was much appreciated by exhibitors who were given abundant room and time to stage and arrange their displays.

The attendance on the opening night was slim, owing to the excitement caused by the elections. The displays of plants were all in place and ready to be judged on time. The chrysanthemum plants taken as a whole were not up to the standard set in former shows, with possibly the exception of the standards. The best and closest competition was in the classes calling for market plants, those of Mr. Andrew Meyer being as near perfection as is possible to grow them.

The cut flower display on the first day was quite good, the chrysanthemums, however, did not come up to those staged later in the week. In 20 flowers, white, 4 sorts, the first went easily to W. J. & M. S. Vesey, whose Wanamaker, Queen, Niveus and Mrs. Robert Craig were the center of attraction. E. G. Hill & Co. came second showing fine blooms of W. G. Newitt and Mrs. J. H. Starin; Michel Plant and Bulb Co. third. In same class as above except calling for yellow Hill & Co. were first, showing fine Dailedouze and Challenge, Michel Plant and Bulb Co. second, Wm. Schray third.

For 20 flowers, pink, 4 varieties, Hill & Co. were again first with specimen flowers of Mrs. W. Trelease, H. Balsley and Roslyn, Wm. Schray second, and Michel Plant and Bulb Co. third.

Best vase white carnations, 40 flowers, was captured after a strong competition by vase of Lizzie McGowan shown by Wm. Schray, Frank Fillmore being a close second with the same variety, and Thos. E. Carroll third. Best vase pink carnations, 40 flowers, was taken by Wm. Schray with fine flowers of Wm. Scott, Daybreak shown by C. Young & Sons Co. second, and Mrs. Reynolds shown by Thos. E. Carroll third. Premium for best vase of variegated carnations, 40 flowers, was taken by Thos. E. Carroll with Helen Keller. Best 24 plants of carnations in bloom was taken by F. J. Fillmore with strong plants of McGowan, H. Keller, Albertini, E. A. Wood, Garfield and Tidal Wave, the plants being in exceptionally good shape, second was awarded to Wm. Schray.

The Shaw medal offered for a plant of decided merit for cultivation, not previously an article of North American commerce, was not awarded, the seedling chrysanthemums shown for it were not in the opinion of the judges sufficiently in advance of varieties in the hall to merit the distinction of having the award. The most promising shown were Carmen Sylva by C. Young & Sons Co., it being their earliest white for the past two years, and consequently in poor shape this late in the season, and Golden Beauty, shown by Wm. Schray, the latter being a large yellow flower, reflexed, but the center well covered and twist enough in the petals to make it graceful.

The Shaw prizes for plants were awarded as follows: Wm. Schray first for collection of palms, showing about 25 varieties in good shape, C. Beyer second. For collection of begonias Michel Plant and Bulb Co. were first with a large and varied collection, principally Rex varieties; Wm. Schray was second with a good collection, the plants individually were better than those winning first but the variety was not shown, F. J. Fillmore third. Michel Plant and Bulb Co. were also first on collection of ferns, showing in their collection some fine specimens, Julius Koenig second with a good assortment. In foliage plants Wm. Schray was the winner with a fine group of varieties, every plant being able to stand alone, Michel Plant and Bulb Co. second, and C. Young & Sons Co. third. C. Young & Sons Co.'s plants were the finest shown, but owing to the smallness of the number of varieties were forced to take third place. The class calling for 25 blooming plants for house cultivation, exclusive of chrysanthemums, called out five good exhibits; Wm. Schray was deservedly first with finely flowered plants of the varieties shown, and C. Young & Sons Co. second. Among Schray's plants were noted fine specimens of bouvardia, begonia, mignonette, heliotrope, eupatorium and heterocentron. Among the palms first was taken for specimen Arca

Intescens by Alex Waldhart with a fine plant in 10-inch pot; first on Kentia Belmoreana by Wm. Schray, Alex Waldhart being a close second. First on Pandanus utilis went to Alex Waldhart with a specimen about 10 feet high, the second plant in this class being a perfect specimen but too small to equalize matters. Best specimen decorative plant other than the above was easily taken by A. Waldhart with a Rhaps flabelliformis, second going to the C. Young & Sons Co., who showed a standard laurel.

Prizes awarded the second day as follows: Best 45 flowers, chrysanthemums, first, W. A. Chalfant, Springfield, Mo., second Hill & Co., third Michel Plant & Bulb Co.

In largest and best collection of cut carnations first was taken by Wm. Schray, second going to Thos. E. Carroll, F. J. Fillmore third. This was the first day cut roses were called for, and presumably on account of the way the election had gone the day before, the exhibitors were unable to count properly the number called for, four entries being ruled out of competition owing to there being either too many or too few blooms. On Brides C. Young & Sons Co. were first, R. F. Tesson second. Bridesmaid, R. F. Tesson first, C. Young & Sons Co. second. First on American Beauty R. F. Tesson, C. Young & Sons Co. second. La France, C. Young & Sons Co. first, R. F. Tesson second. C. Young & Sons Co. took first with Duchess of Albany and Mme. Watteville without competition, also first on any other variety with Sunset. In five varieties, ten of a kind, both C. Young & Sons Co. and R. F. Tesson were ruled out of competition owing to one having 11 and the other 9 in a vase calling for 10. R. F. Tesson took first, however, with a duplicate entry.

For best mantel decoration of plants and flowers C. Young & Sons Co. received first prize, Bucksah & Berning second, and Michel Plant and Bulb Co. third. Young's mantel was a double shelf with mirror between; the upper shelf was banked with adiantum and cocos, valley being used against it, vases of Testout roses standing on the corners; the lower shelf was banked with various adiantum and La France roses scattered throughout, the corners being of orchid flowers which twined up the end supports to the upper shelf, the space between top of mantel and ceiling being festooned with smilax and roses. The lower part of mantel and grate was banked with chrysanthemums. Bucksah & Berning's mantel was also a double shelf with mirror between, the sides and two shelves were banked with adiantum, cocos and Rex begonias, while standing above the green were Golden Wedding chrysanthemums. The fireplace was also banked with ferns and decorated with Golden Wedding. The Michel Plant and Bulb Co.'s mantel was also a double shelf mantel and was banked much as the others with ferns and palms; various colored "mums" were used in setting off the green, and orchid flowers on the ends of the shelves, the base being banked with chrysanthemums. Banks of palms extended from the sides several feet each way, gradually approaching the floor.

The chrysanthemum classes called for on Thursday proved to be the finest specimens and the closest competition ever seen here. Best 25 blooms one white variety called out seven magnificent vases, principally Queen, first was taken by W. J. & M. S. Vesey with the finest specimens of Queen ever seen here, second being taken by Wm. Schray, and third by C.

Young & Sons Co., both showing Queen. In 25 yellow there was a hard matter to decide between Golden Wedding, Eugene Dailedonze and W. B. Smith, Michel Plant and Bulb Co. finally winning with Golden Wedding, E. G. Hill & Co. second with Eugene Dailedouze, and E. W. Guy of Belleville third with W. B. Smith. In 25 blooms of one pink variety Richard Frow won with the finest vase of Vivand-Morel that have ever been seen here, they being simply perfect in size, color and foliage. W. A. Chalfant of Springfield, Mo., second with Pres. Smith, Hill & Co. third with Harry Balsley. In best 25 flowers of one variety, introduction of 1892 93-94, Michel Plant and Bulb Co. were first with H. Sunderbruch. Challenge, shown by Hill & Co. was second, and L'Enfant des Deux Mondes shown by C. Young & Sons Co. third.

The competition in cut roses on Thursday was close and developed several surprises. Best Meteor was captured by C. Young & Sons Co., who seem to have a knack of growing that variety; R. F. Tesson second. Best Kaiserins, R. F. Tesson, no competition. First for Perles C. Young & Sons Co., second Frank Fillmore. Mme. Testout, R. F. Tesson first, C. Young & Sons Co. second. Catherine Mermet, R. F. Tesson first, C. Young & Sons Co. second. Frank Fillmore won first on Woottons, this being the prize he has been watching for some time; C. Young & Sons Co. second. First for Mme. Hoste R. F. Tesson; C. Young & Sons Co. second. R. F. Tesson took first for Cnsin, and C. Young & Sons Co. first for American Belle without competition.

The parlor decoration called for brought out the three firms who showed mantels the day before; the parlor decoration was built so as to include the mantels, these in some cases being slightly changed. First was won by the C. Young & Sons Co.; their mantel remained the same as the day before, the base being changed, however, giving it a lighter appearance. The room was profusely decorated, in fact the criticism heard most was that it was too elaborate. Streamers of smilax ran from the chandeliers to the sides of the wall, the chandelier itself being draped with smilax and roses. Placques of camellia leaves bearing bunches of Bride and La France roses were suspended on the walls; the mirror was twined with smilax and roses and banked with chrysanthemum plants. Palms and other decorative plants were set around the base of the walls. Bucksah & Berning's mantel was changed, the chrysanthemums used the day before being removed and their place filled by American Beauty roses. Their parlor all through consisted of Beauties with the exception of two placques of white chrysanthemums upon the walls; the mirror was decorated with smilax, while vases of Beauty roses were stood in front of all windows. Chandelier was also draped with smilax, and plants banked against all openings; this received second prize. The Michel Plant and Bulb Co. was third with a decoration of chrysanthemums. Their mantel remained the same as the day before, the sides being banked with palms, smilax was used for draping openings, and several mounds of chrysanthemum flowers were scattered throughout the room.

The special premiums scheduled for Friday called out keen competition, which was much appreciated by the visitors. The premium offered for best vase of chrysanthemums was won by W. J. & M. S. Vesey, the vase being arranged by Mr. Fred Weber. Best vase of assorted chrysanthemums was won by the Michel Plant

and Bulb Co. C. Young & Sons Co. captured first on best vase of Beauty roses, winning on artistic arrangement. For largest and best assortment of chrysanthemums arranged in vase Wm. Schray staged some fine flowers and won. For largest and best assortment of carnations arranged in a vase first was awarded to Thos. Carroll. Best 25 specimen blooms of chrysanthemums, different varieties, first went to Hill & Co. with a remarkably good vase of exhibition flowers.

E. G. Hill & Co.'s prize for 12 finest blooms of varieties first disseminated in 1894, one or more kinds, went to Wm. Schray, who showed Pitcher & Manda, Eugene Dailedouze and Marie Louise, second going to E. W. Guy of Belleville.

First on best vase of pink roses exclusive of Beauty and Belle, was taken by R. F. Tesson with a magnificent vase of Testouts, without doubt the finest vase of roses shown during the exhibition. C. Young & Sons Co. took first for best vase white roses with Kaiserin. Taking the show all in all we have never had a finer exhibition, and at the same time never a more losing venture. R. F. T.

Baltimore.

The first day of the show was about as disagreeable as the weather clerk could get up, or a cold, penetrating rain and a sharp wind could make it. For all this the boys were out in time with their wagons full, and by the time the committee in charge had finished placing the row of tall cedars and spruces that formed the background around the interior of the building the floor was beginning to be pretty well filled with plants.

The fears of the growers that blooms on plants would not be open in time for the show were only too well founded, as the untying and removing the wraps proved, for, with very few exceptions, the flowers on the bush plants were not more than half open; some of the exhibitors, in order to make up collections, having been compelled to put in plants with flowers that were mere buds, not much more than showing color. The single stem plants were brilliantly different from the rest of the exhibition in this respect, and with the really fine standards redeemed this feature of the show from a very decided mediocrity, not to say inferiority.

The general appearance of the huge circular interior was spoiled by some over-patriotic partisan who had draped or rather papered or plastered the whole wall down to within ten feet of the floor with red, white and blue bunting plentifully sprinkled with stars for a political meeting which was held Saturday night, and which the committee had no time to replace by a less gorgeous color. The general arrangement of the exhibits was much the same as last year, the tables for cut flowers being around the entire circumference of the hall close to the wall, the column that supports the centre being concealed by a circular group of large *Areca lutescens* sent by Mrs. M. J. Thomas, and the plants being grouped according to number in the premium list, all the entries for a premium being placed together. The first table to the right on entering contained the entries of carnations, six vases, twenty-five blooms each, first in which was taken by Messrs. H. Weber & Sons of Oakland, Md., with Lamborn, Mrs. Reynolds, Portia, Pride of Kennett, Scott, J. J. Harrison. The first in the next lot, display of carnations, was taken by the same firm with Helen Keller, Century, Edna Craig, Butterfly,



GROUP OF CHRYSANTHEMUMS AND OTHER PLANTS AT THE BOSTON EXHIBITION.

Chester Pride, L. McGowan, Lamborn, Daybreak, Sunrise, Richmond, Mrs. Fisher, Tidal Wave, J. J. Harrison, Mrs. Reynolds and Wm. Scott, all very good, as in fact was the whole of the carnation exhibit. The same firm too took first on vase of whites, vase of red, vase of crimson and vase of pink, but the vase of yellow was taken by Mr. Thos. Patterson with a lot of very fine Golden Gate, while the best vase of striped was shown by Mr. P. Campbell Erdman.

Next to the carnations came a lot of very fine chrysanthemum flowers that took second for twenty-five cut blooms in twenty-five varieties, beautiful flowers all, but very carelessly staged, many of the lot being singly in stone jars with mouths five inches wide, the space around the stem being occupied by bunches of brown paper or newspaper projecting above the top of the jar. This crime against an indulgent public was nearly as barefaced in the next lot which took third in the same class. If this is to be continued it would be advisable to insert a rule in the next schedule throwing out all exhibits improperly or offensively staged. There can be no excuse for such neglect, as there was nothing to prevent several blooms being placed in one vase even if no better receptacle than stone jars could be had. A slight varia-

tion on this was shown in the next lot, where excelsior was used instead of paper.

Next to these came the orchid exhibit of Brackenridge & Co., who took advantage of a large evergreen tree behind their display to extend it by hanging blocks of *laelias* up among the branches.

Next along the wall came the booths and stalls for selling flowers, in front of which were two tables containing the entries for vases of cut chrysanthemums and the special prize for Maryland grown seedling. First came the vase of whites, in which Mr. E. A. Seidiwitz carried off the honors with twelve grand blooms of Queen. Next the yellows, where the same gentleman took first with Golden Wedding; this variety by the way seems entirely free from any disease here as yet, and all specimens shown were as clean and healthy as any other variety. The vase of pink that took first was Maud Dean, large, strongly incurved and of much the same tint as L. Boehmer, shown by Mr. C. Hess. Then came a vase of Col. Smith from Lehr Bros. that took first in bronzes, and then came four great clusters of varieties from Pitcher & Manda, the first composed altogether of their namesake, the next containing Annie Sturges, a perfect globe of broad petals incurved and clear yellow, but on a very weak stem; Mrs. E. O. Wolcott, as com-

pact a ball of thickly set light rose petals as one could imagine, borne on a very strong stem; Mrs. B. Cutting, such an exceedingly thick set mass of reflexed petals that one wondered whether it would be possible to have another petal inserted. Undoubtedly their Pitcher & Manda was the most striking novelty shown in the building, the clear yellow centre contrasting beautifully with the pure white composing the outer half of the face of the flower. Then came the vase arranged for effect by Sam'l Feast & Son, which was awarded first prize; the flowers were arranged with sprays of *Asparagus plumosus*.

Next in order were the sprays, where Mr. Paul Bender took the honors. Then a vase of enormous blooms of Philadelphia, a globular incurved white with slight tint of yellow, strong stems and broad petals, sent on by Mr. Hugh Graham for exhibition. A seedling shown by Fisher & Ekas was named Baltimore Belle, bluish white incurved, very full, rather flattened in outline, and borne on a strong stem.

After passing along in front of the stand for the musicians the exhibit of decorated tables and mantels was reached. Here was a display of good taste and fine flowers such as is not often excelled. The table that carried off the honors was by

Sam'l Feast & Sons, and had a low mound of enormous Vivian-Morel and *Adiantum cuneatum* in the center; radiating from this were four bands of *Adiantum Farleyense* with blooms of the same chrysanthemum lying in the fronds, and terminating in bows of broad pink ribbon of a similar tint. At the plates were long and short stem Vivian-Morels alternately, the long stemmed ones having bows of narrow pink ribbon on the stems. Altogether the effect was very fine and as light as possible with such huge flowers for material. The table that was awarded second place was by Halliday Bros. and was circular in shape too, the centre being mounded with Mrs. Craig Lippincott and *Adiantum cuneatum*; a bunch of single white or daisy chrysanthemums laid in one side of the mound was a mistake, as, though a pretty flower by itself, in connection with the monster blooms of the rest of the decoration it looked common. The third entry by Mr. E. A. Seidwitz, while very prettily decorated, had a too obtrusively artificial arrangement of mirrors under the flowers, and was not as carefully set as the others, the cloth failing to cover the table by some inches.

The mantel that carried off the first premium was very tastefully decorated by Halliday Bros. with tall arceas on one side, the leaves reaching well above the top. On the same side, with the stems partially concealed by the palms a few large Golden Weddings were arranged in a sort of spray, the flowers showing one above another quite loosely and effectively. The shelf was banked with *Adiantum Farleyense*, while in the fireplace and all around the group of tall palms on one side and short ones on the other was a bank of *Adiantum cuneatum*. There were four mantels entered, and not one of the four was carelessly or tastelessly decorated, in fact the others erred rather on the side of too much care than too little. They were by Messrs. Feast, Seidwitz and Graham, and were all very well done indeed, and must have given the judges for the second day, Messrs. J. N. May, J. H. Taylor and J. H. Small, some trouble before awarding the second to Sam'l Feast & Sons and third to E. A. Seidwitz, which they did.

The brightest break among the plants on the floor was the single stem lots, which were all very well grown and mostly fully blown. First for twelve varieties, single stem and bloom, was taken by Jas. Simpson. First for six varieties, single stem and flower, by Philip D. Welsh. The same classes for amateurs employing gardeners were awarded as follows: First for twelve varieties to W. Paul Bender, first for six varieties to C. M. Wagner.

The standards were very well grown, the plant that took first being Good Gracious, seven feet high, showing three feet of stem and bearing a globe of flowers three feet in diameter, grown by Mr. C. M. Wagner. Mr. P. D. Welsh was first for collection of three standards.

The roses exhibited were very fine, particularly a vase of Kaiserin shown by Mr. C. Hess. In this exhibit was a grand vase of American Belle from Mr. John Burton of Philadelphia.

Mrs. M. J. Thomas received a special prize for palms. M. A. Hanske received prize for one specimen palm, Fisher & Ekas for collection of begonias, I. H. Moss for collection of decorative plants. The judges were John Burton, George Huster and W. J. Colflesh, all of Philadelphia.

The wedding design which took first in

the Wednesday division was by Brackenridge & Co., and in shape resembled a large horseshoe of white chrysanthemums with a horn of plenty pouring a flood of large pink "mums" out through the horseshoe. The bridal bouquet which received the first premium was shown by the same firm, and was a loose cluster of Bride roses and *Adiantum*.

On Thursday the funeral work and baskets were staged, and in this as in the preceding list the competition was very hot. Mr. F. G. Burger took first with a large basket of Queen and Maud Dean, with *Adiantum* fronds and a bow of white ribbon on the handle. The same exhibitor took first in funeral design with a huge wreath of the same varieties tied with white ribbon. The judge for bridal work was Mr. Otto Bauer from Washington; for the baskets and funeral work Mr. W. J. Halliday of North Charles street.

The entries for dinner table pieces on Friday were all very well done; the piece that took first was a mound of very large loosely arranged Maud Dean chrysanthemums with *Adiantum* fronds, sent by President F. G. Burger. All the entries in this class were pink except that which received second, a six pointed star from Mr. Robt. Graham, the center of which was Pres. Wm. R. Smith and the rays Domination, the clear white of which contrasted with the yellow center very prettily.

The corsage bouquet that received the first premium was a loosely arranged cluster of La France buds by President F. G. Burger. Take them all in all the cut flower exhibits were very fine and attracted crowds from the first day to the last. The competition continues very strong notwithstanding the fact that several of the most prominent competitors last year failed to send anything at all this; and altogether there was very little grumbling among the disappointed ones, though there was some little discontent with the awards for Thursday. The net results of the show were a surprise to those faint hearted members who predicted a failure, as the crowd was as great as could have been expected considering the weather, even if there had been no rival attractions, and while the financial success may not have been as remarkable as last year's, yet the fact remains that we have had a successful show, while opposed by a strong one man show and a society event of the first magnitude, i. e., the horse show.

Speaking of the one man show, that of Mr. John Donn held at Lehman's Hall, it can only be said in justice to Mr. D. that it was as good a show as one man could get up. The pretty hall was filled to overflowing with grand plants grouped as tastefully as possible. One great advantage of a non-competitive show was seen in the harmonious grouping of the plants, which were placed just where their size and color would tell. Singularly enough the flowers here were all in fully expanded condition with very few exceptions. The stage was banked with large *Pandanus* and chrysanthemums and formed a very pretty picture. Along either side of the hall single specimens were placed at intervals, and the groups on the floor were arranged around a central group of fine palms. It would be hard to select individual plants to praise where all were uniformly excellent, but his G. W. Childs were particularly fine, as were also Pres. W. R. Smith and Vivian-Morel. The lack of attendance at this show was no doubt due to the lack of the excitement of competition as much as to

the absence of cut flower exhibits, and if Mr. Donn could stir that up by offering premiums among his customers he could probably secure a very satisfactory attendance.

Reports from the Frederick show seem to indicate that Maryland is "in it with both feet" this year as far as holding chrysanthemum shows is concerned.

MACK.

Denver.

The second annual chrysanthemum show of the Denver Florists' Club was held in the Gettysburg Building, opening Wednesday, November 7, and lasting through the week. The building was tastefully and beautifully decorated with evergreens and festooning. In the center was a large booth in charge of the Flower Mission, where some of Denver's fair daughters, arrayed in Japanese costumes, sold chrysanthemum blooms. A string orchestra playing both afternoon and evening was an addition much appreciated by all the visitors. The attendance the first two days was not quite up to that of last year, but both Friday and Saturday the show was visited by large numbers of Denver's four hundred and others, and the special attractions were surrounded by crowds both afternoon and evening.

Never has it been our pleasure to see such an advance in the culture and exhibiting of flowers as has been made by the florists of this western city, for no one would have dared predict, from the show of last year, that in twelve months there would be here shown chrysanthemums and roses that would astonish many eastern experts, and would carry off many premiums if staged in any eastern city. The specimen blooms were a revelation to the residents, massive blooms of all the shades known to chrysanthemum lovers were shown by Mrs. R. Mauff, the Colfax Floral Co., J. L. Miller Floral and Nursery Co. and C. R. Gallup, the former showing a shade the better flowers, and taking a majority of the first prizes. Golden Wedding was shown in magnificent form and foliage, and sustains the claims of its disseminator and early admirers. Nivus was grand and the twelve blooms awarded first premium for the best white were as fine as your correspondent has ever seen. Mrs. Jerome Jones and Harry Baisley were beautiful, and Miles A. Wheeler was shown in such excellent condition and form that many eastern growers would have wondered if a new variety had not just sprung up. The bronzes and reds were not so good as in some of the other cities, owing, perhaps, to the great abundance of sunlight, for we have not seen a cloudy day since the first of September.

The plants shown were a great improvement on those of last year in many respects. The tall gawky plants were noticeable by their absence, and some very fine low, bushy plants, with foliage clear to the pot, covered nearly half the floor space of the large building. The Colfax Co., Mrs. R. Mauff and J. L. Miller Co. were the largest exhibitors, and each captured several firsts, the first named taking the lead.

Collections of palms containing many fine specimens were shown by C. R. Gallup, Colfax Floral Co. and Mrs. R. Mauff, the prize being awarded to the last named. In this exhibit was shown a fine plant of *Acanthophoenix criuata*, a small graceful specimen of *Areca Verschaffeltii*, and a large *Phœnix reclinata*



ANOTHER CORNER AT THE PHILADELPHIA SHOW.

in splendid condition. In C. R. Gallup's collection was a beautiful *Cocos Weddelliana* and a large handsome *Kentia Belmoreana*. In the exhibit of the Colfax Co. were two very handsome *Areca lutescens*.

The prize for the most artistic grouping of stove and greenhouse plants brought out a very handsome collection from Mrs. R. Mauff arranged in pyramidal form. Begonias, small arecas, marantas and aspidistras at the base, topped by fine kentias and *Ficus elastica*, and at the apex a beautiful *alocasia*.

The display of roses, carnations and violets on Thursday was exceedingly good, and the competition between the Colfax Co., H. H. Given, Mrs. R. Mauff, C. R. Gallup and the J. L. Miller Co. was very close. The Beauties were grand and of fine color. *La France* was excellent, and far better than usually shown in the east. *Mermets* were very light in color, but *Bridesmaid* was in fine condition and of beautiful shade. C. R. Gallup took first on *Wootton*, *Meteor*, *Niphotos*, *Bennett*, *Bridesmaid* and *Sunset*; H. H. Given on *Mermet*, *Kaiserin*, *Duchess of Albany* and *American Belle*; the Colfax Co. on *Beauties*, *Brides*, *Perles* and *Testouts*, and Mrs. R. Mauff on *La France*. Mrs. Mauff succeeded in making a clean sweep of the carnation prizes, showing fine *Portias*, *Wilders*, *Daybreaks* and *McGowans*.

The silver cup offered for the best seedling carnation was awarded to a fine large crimson named *Denver*, exhibited by August Schenkel. This exhibiter also

won first on violets, showing a fine large bunch of good dark color. The plate of pansies shown by the Miller Co. was excellent.

Friday was the day for table and mantel decorations, which were judged by five of Denver's representative ladies. This contest brought forward five very handsome tables, and four beautiful mantels. C. R. Gallup captured both firsts and the Colfax Co. both seconds. Mrs. Beers, wife of the proprietor of the Colfax Co., received many congratulations from her friends, as this was her first attempt at exhibiting.

The attraction for Saturday was floral work, prizes being offered for bouquets, baskets and designs, and in this department Denver is behind the best floral work of the east. The work is, with but few exceptions, too compact and too solid. The J. L. Miller Co. showed two very fine baskets, one of roses and one of chrysanthemums, receiving first in both classes. Mrs. R. Mauff was awarded first on funeral design, hand bouquet and original design, the latter being a representation of music stand and parlor lamp combined. Mrs. C. R. Gallup was first on bridal bouquet.

Two contests that added a great deal of merriment and interest were the potting contest on Friday evening and the bouquet making on Saturday evening. In the former five young men employes of the different floral establishments competed, the prize of \$25 being awarded to E. J. Johnson of the Colfax Co. In the bouquet contest there were four competitors, each one being given a box contain-

ing flowers, ferns and twine, from which they were to make a flat bouquet, each box containing as near as possible the same quantity and quality of each. This was won by Mr. Thornton, representing Mrs. R. Mauff.

Elijah A. Wood judged the chrysanthemums and E. Glauber the roses and carnations, and both together the floral work. E. A. W.

Indianapolis.

The weather was miserable all the week, sleet, cold wind, and lots of politics. Election week seems to be bad on entertainments anyway. The auction sale on Saturday was very interesting, every plant and flower being sold by 3.30 in the afternoon, and the hall cleared of everything except decorations by 5 p. m. The decorations will remain up for coming amusements.

The ice palace, with all kinds of fruits, etc. frozen in through the different blocks made a beautiful attraction. Attractions of this kind seem to be needed to draw many kinds of people. It seems necessary to make the show half a circus, or make it a social affair, something fine and expensive to draw the "400."

Among the later awards W. W. Coles received first prize for a display of cut roses, Henry Rieman second. Mr. Coles received first for a basket of chrysanthemums, John Hartje first for a floral vase. Bertermann Bros. received first for a table centerpiece, Anthony Wiegand first for floral design. E. G. Hill & Co. receive

first for 10 blooms pink chrysanthemums, and Henry Rieman carried off the sweepstakes prize, a silver cup, he having taken 16 first premiums. A certificate was awarded to the new chrysanthemum Mrs. Potter Palmer, shown by Fred Walz, Cincinnati. The new seedling Philadelphia attracted a great deal of attention, particularly under artificial light. A bunch of *Chrysanthemum frutescens*, sent by Grallert & Co., Colma, Cal., suffered during the long journey, and was unfit for exhibition.

The M. A. Hunt estate, represented by Mr. Charlie Hunt, showed some excellent Bridesmaid and other roses. Mr. J. N. May's new rose Mrs. Pierpont Morgan, was received; owing to the length of time it had been cut decision could hardly be passed on it, but it was considered a beautiful shade of pink and a promising variety. Siebrecht & Wadley's new rose Belle Siebrecht was not considered of sufficient size or quality to be judged or commended; they came too late to be put in cold storage to revive.

A display of greenhouse building material was made by the Lockland Lumber Co., and an exhibit of florists' paper roses by the Dayton Paper Novelty Co.

The fruit display by the Indiana Horticultural Society was very extensive, five long tables being filled with very good apples, grapes, pears, etc. The Society proper met at the State House in their rooms November 7 and 8 in annual session.

The judges were very particular in regard to count; some excellent displays were ruled out in favor of some displays not up to standard. Points of quality should have overbalanced miscount points, in the writer's opinion.

Chrysanthemum blooms are getting so big and stems so long that it is hard to get suitable vases and jars. The headwork and trouble in raising large plants seems to be the rock on which many shows fail. Good large plants make a splendid attraction.

Figuring does not seem to help up the cash supply. A small deficit is in sight,

THE BANQUET.

Wednesday evening promptly at 9 o'clock a stream of people wearing red badges and some of them struggling along with large "mums" on their persons could be seen making their way to the Commercial Club Building. The large dining hall was elegantly decorated for the occasion, the long rows of tables being profusely enlivened by wild smilax, center floral pieces and cut flowers. Just 102 sat down. After doing the splendid menu satisfaction, Mr. H. N. Spann, an amateur florist and a good speaker, welcomed the visitors and invited guests in behalf of the Huntington Seed Co. Mr. J. D. Carmody responded in his usual happy manner, he especially commended the idea of having ladies to participate in these banquets. Mr. W. W. Coles responded to the toast, "Indianapolis" and what he thinks of it. Mr. Wm. Langstaff, "Politics and flowers," E. G. Gillette on his experience in visiting Indianapolis chrysanthemum shows.

Mr. E. G. Hill, just arrived from Philadelphia, spoke on the Chicago and Philadelphia shows, making pleasant remarks on both, coming to the conclusion that the advance in chrysanthemums this season is wonderful. Many others were called on and made short responses with witty remarks. Music enlivened the occasion during the banquet and also while assembling at Huntington Seed Co.'s store, the store being decorated and provided with seats for all.

John Hartje when called on, had not



PARTIAL VIEW OF THE INDIANAPOLIS SHOW.

much to say but mentioned that he was experimenting with a new carnation seedling which he intended to call "Rust."

About twenty ladies, mostly florists owning their own places, were in attendance. About thirty florists and others took part in the banquet, being visitors from other states. Mr. E. G. Hill and wife came direct to the banquet from the train, having arrived from Philadelphia.

An entertainment was given by the Indianapolis Florist Club and Society of Indiana Florists Thursday evening. At 9 p. m. about 60 members and invited guests gathered in the hall and marched to the club rooms, only two squares away. Everything was in readiness for a good lunch, with coffee and other refreshments. Mr. Langstaff acted as toastmaster or general director. A splendid array of talent was present. Prof. Walker introduced Mr. Healy for some songs; his baritone voice thrilled all present and he was called on again. Mr. Carmody gave an imitation of song which was sidesplitting. The Bald Headed Glee Club which added so much enjoyment to the carnation meeting banquet was also present and gave some songs which kept us all in good humor, and we could have listened to them all night. Prof. Walker introduced Mr. Pink Hall, a local artist in imitation songs and recitations. Never had so much fun in our club rooms before. Mr. Giesy of the Lockland Lumber Co. gave a beautiful recitation, "The Army of the Dead," and several others. It was nearly one o'clock when the entertainment broke up, every one leaving for home and their hotels still smiling.

Exhibition Echoes From Philadelphia.

The new chrysanthemum "Philadelphia" held supremacy to the last. It has proven itself to be an excellent keeper. In addition to other honors which have been showered upon it, a silver medal has been awarded, in further recognition of its superior merit.

I hardly feel justified in referring to Mr. Spaulding's grand new variety which was the only dangerous rival the Philadelphia had in competition for the "Blanc Prize." I even forget the number under which it

was exhibited. Numbers are necessary to designate different varieties to the owner or raiser of seedlings, but a number has no significance to the floricultural world at large. In size it is larger than the Philadelphia, but of a different form; White in color, and well built up in the center. This same variety was exhibited as a pot plant for a seedling prize, but it was found on examination to have six or eight plants potted together in one pot. Not that there should be any serious objection to this plan of exhibiting under certain conditions, but when the schedule plainly states that "plants must be grown to single stems," we should all try to adhere to that regulation. In some instances six or eight plants were in one pot, apparently with the idea of shutting up the eyes of the judges. Judges should not be expected to detect these evidences of attempts at fraud. A committee should have such matters in charge, to disqualify any exhibits that are not according to the schedule, and after that matter is thoroughly straight let the judges go ahead.

Rule eight among the regulations governing chrysanthemum exhibitions of the Pennsylvania Horticultural Society, is to the effect that "No person will be allowed to remain in the exhibition building during the time the judges and their assistants are at work." An excellent rule, and one that in justice to the judges the society should see enforced. Interested exhibitors are very much inclined to be in the neighborhood of their own exhibits, and especially when the judges are making the necessary examination before the awards are made, and some are so zealous in the interest of their own exhibits that they cannot refrain from interjecting a remark occasionally.

Some confusion has been brought about through the over-anxiety of an interested exhibitor in the matter of the award for seedling carnations. "Lena Saling" and "Della Fox" were the principal contestants in this class. The judges who had been appointed to examine these exhibits were very careful in making the award, taking the flowers into different lights, gas-light and day-light; and the first prize was awarded to "Lena Saling." The first prize card, however, appeared on the

*Spaulding's Seedling.**Philadelphia.*

NEW CHRYSANTHEMUMS AT THE PHILADELPHIA SHOW.

"Della Fox," and in explanation, the exhibitor stated that the young lady in the office gave him the card. The "young lady in the office" is an assistant to Secretary Farson, and had no authority to give or withhold premium cards. This is a case for the Pennsylvania Horticultural Society to settle at its next meeting. If exhibitors would only abide by the decision of the judges, and to await the affixing of the cards of honor by the proper authorities, these confusions could be avoided, and some apparent inconsistencies explained.

An idea carried out in Cincinnati and some other cities is for one of the judges to carry different colored ribbons on his arm, and when a first premium is awarded a blue ribbon is attached to the exhibit receiving that recognition; a red ribbon for second; yellow for third; and a white ribbon for a special premium or highly commended; and in this way if done at the time the judges are present few or no mistakes can or will be made.

The Academy of Music is not a first-class place to hold a flower show. A lady who dearly loves flowers said, after she had visited the show, that she does like to see flowers by daylight. This, let us say, was next to impossible in this building. It was no unusual thing to see the judges in the open air on Broad street assiduously examining flowers in the day light, so as to do all in their power to render a just decision, when the contest was in any way close; this was the case especially when seedlings were the principal contestants.

The plant exhibit on the lines of former years was far below the standard set by Philadelphia some years ago.

The exhibition of cut blooms is comparatively within the reach of any one, especially does this apply when the classes are so arranged that a grower of chrysanthemums in moderate quantities can exhibit. Too often the classes are arranged for the large growers, and for them apparently exclusively. A vase with twelve, twenty-five or fifty well grown blooms therein will attract more attention than the best grown plant that was ever exhibited. Judging from the way plants were exhibited in Philadelphia, with the large ungainly stakes to which the stems were "trained" (?) we are inclined to believe in a very few years they will be relegated to the rear. Why not offer a premium for the best twelve yellows—one variety, grown to a single stem, one flower on a stem, not more than two feet high, in not over a 5-inch pot; and this premium could be followed through all the different colors—very pretty little groups of these would be made. It seems advisable to limit the height, or some ungainly, lanky plants would possibly find a place in the show, which to me seems desirable to discourage. Liberal premiums should in all cases be awarded to meritorious seedlings, and we should not always insist on advances on good old kinds, because, good old kinds will oftentimes deteriorate, and if we can get new ones to take the place of the good old kinds, we should be willing to recognize that fact, and award accordingly.

There are many just such little matters worth thinking about at this time, when chrysanthemums are uppermost in our minds. Now is a good time to revise the schedule for next year, and at least one good man on a committee for that pur-

pose would be one who has acted as a judge during the passing season, as he is one of the most likely persons to notice discrepancies in lists of premiums.

E. L.

Newport, R. I.

The Newport Horticultural Society's fifth annual chrysanthemum exhibition was held under rather inauspicious circumstances as to weather and attendance and the gardeners who had worked so hard to make it a success expressed much disappointment at the apparent lack of popular appreciation. Most of the contributors are private gardeners in charge of the many beautiful estates which abound in Newport.

The show was not a large one but was all right as to quality of both plants and cut blooms. Thos. Beattie who won two first and two second premiums on plants showed among his plants good specimens of Domination, Hicks Arnold, Mrs. H. F. Spaulding, Ada Spaulding and A. G. Ramsay, the latter taking second prize for single specimen. Alex MacLellan's plants were well furnished with good blooms and lacked only in foliage, Robert Bottomly and Yeddo being among the best. James Hooper's specimens would have been improved by the use of smaller stakes. His plants grown to single stem and bloom were good, particularly Domination, Golden Wedding and Mrs. F. L. Ames.

The surprise of the occasion was the plant entered as single specimen by George Douglas, an amateur. The variety was Princess of Chrysanthemums, and the plant which was fully six feet across and

bore two hundred and fifty good blooms had never been under glass. Three beautiful groups of palms, ferns and decorative plants arranged with chrysanthemums were shown by Richard Gardner, Andrew Meikle and Gibson Bros., who took first, second and third prizes respectively, although the groups were so much alike that a choice was not easy. Andrew Meikle's group of crotons and other variegated stove plants filled one corner of the hall very prettily.

In cut flowers all the above mentioned exhibitors made creditable displays, an additional competitor in this section being W. N. Craig of Taunton, who caught most of the first premiums with some fine blooms. All the good and popular varieties were well represented. The entries for the prizes offered for centerpieces were all alike in design, being simple mounds of chrysanthemums arranged with ferns or asparagus. Gibson Bros. were first, A. Meikle second and A. MacLellan third in this class.

Silver medals were awarded to J. Cowles for canna Mrs. Fairman Rogers, Hugh Graham for chrysanthemum Philadelphia, and H. E. Chitty for carnations Alaska and Corsair. Pitcher & Manda showed a collection of novelties in cut blooms. H. J. Haas and Otto Ehrhardt exhibited good collections of vegetables and a special premium was awarded to Geo. A. Weaver Co. for bulbs and jardinières.

The school children's exhibition in competition for the special prizes offered by Geo. A. Weaver was very interesting and many of the plants showed intelligent and painstaking effort.

Germantown, Pa.

The twelfth annual chrysanthemum show of the Germantown Horticultural Society opened on Tuesday evening November 6, in the Cricket Club House at Manheim. It is the second show the society has held in this pretty hall and its natural advantages render elaborate decoration unnecessary. Some fine arecas for a background on the stage and a few more scattered through the gallery, together with a group of araucarias, a mantel or two of crotons and ferns and a group of foliage plants in the center of the hall surmounted by a fine specimen *Latania borbonica* were all that was needed to set off the glowing colors of the chrysanthemums. Mr. Albert Woltemate had charge of the decoration and in fact of the whole arrangement of the plants and flowers, and he made an excellent effect. The society owes much of its success to Mr. Woltemate's zeal and energy. Without his aid the shows would hardly be practicable.

The plants were as a rule well grown, compact specimens and made a very creditable display. There was no marked advance in quality over the plants of last year, but perhaps this can hardly be expected, as the amount of care and skill required to grow specimen 10-inch plants makes them too costly for any but a few growers. To my mind there is more beauty in small compact plants grown in from 6 to 8-inch pots with from six to twelve perfect blooms than in very large plants in 10 to 14-inch pots. There is certainly great room for improvement in this class and a little judicious change in the premium list for another season might make this class a most attractive feature, the great advantage being that plants of this size are just what is wanted for house decorations.

The cut blooms showed a decided im-

provement from last season and quite unexpectedly a private gardener carried off the honors of the day. Mr. Edward Jones, gardener to Mr. Cardeza exhibited some blooms that were first-class in every respect. For yellow, he had Mrs. Craige Lippincott in grand form. Niveus was his white and for pink he showed Harry Balsley and Erminilda. The latter is a beautiful flower and should prove a valuable bloom for commercial purposes, its clear pink color lightening up wonderfully well at night. The other flowers were all good. Mr. Albert Woltemate showing some Black Diamond and Geo. W. Childs that made an effective vase together.

The cut roses were fair considering the mild weather, Testouts and La France were both excellent but the others were a little small. Some cold weather would make them better.

The carnations were all good. Portia, McGowan, Daybreak, and Grace Wilder, Crimson Coronet, Buttercup, Sweetbrier and Helen Keller were seen to advantage and the competition was very brisk. A few orchids were shown and some nice rubbers and ferns.

The seedlings were very interesting and some showed promise of developing into valuable acquisitions. Among the novelties here Mr. Sibson gardener to Mr. Thomas McKean showed H. L. Sunderbruch which created a favorable impression. The gardeners and florists of Germantown can look back with pride to the chrysanthemum show of 1894, which let us hope will prove as great a success financially as it deserves.

The judges were Messrs. Bevis, Colflesh and Jellett; appended is the premium list:

THE AWARDS.

In pot grown chrysanthemum plants first premiums were awarded to Matthew Brackeu for 6 plants in 12-inch pots, 6 plants in 6 varieties in 10 inch pots, 3 plants in 3 varieties in 12-inch pots, specimen plant white, same yellow, same pink 3 standards in 3 varieties, and 3 plants in 3 varieties in 14-inch pots; to P. Conlin for specimen red; to H. Surman for 6 seedlings, and single seedling; to M. Sammon for specimen standard; to H. Diehl for 12 plants in 6 varieties in 8 inch pots, 6 plants in 6 varieties in 8-inch pots; to John F. Sibson for 12 plants in 6 varieties in 6-inch pots with one to three blooms each, and 6 plants ditto.

In cut chrysanthemums Edward Jones won firsts for 12 pink, 12 yellow, and 12 white; Albert Woltemate for 12 red; J. W. Young for 12 any color, 25 any one sort, and 50 ditto; David Cliffe for design of chrysanthemums.

In cut carnations Albert Woltemate was first for 25 scarlet, and 25 white; Thos. Meehan & Sons for 25 light pink; John F. Sibson for 25 dark pink; J. W. Young for 25 crimson and 25 any other color.

In roses Albert Woltemate was first on Perle, Testout, American Beauty and any sort; David Cliffe on Sunset and any other variety; J. W. Young on Watteville, Mermet, La France and Bridesmaid.

Special mention was made of a collection of orchids, palms, etc., exhibited by Albert Woltemate; of corner decorations shown by David Cliffe, and mantel decorations shown by Albert Woltemate and J. W. Young.

JOHN WELSH YOUNG.

Chicago.

On the seventh day (Friday) the competition in orchids and chrysanthemum baskets and set of bouquets, (one bride's and four bridesmaid) took place. In orchid baskets only three entries showed up, a number of entries being scratched owing to the scarcity of stock. P. J. Hauswirth took first, \$50, on a small round handle basket; the arrangement consisted of a fine plant of *Adiantum gracilis* plunged into the center of the basket, between the graceful fronds of which 50 *Cypripedium Lawrenceanum* were arranged, giving an airy and pleasing effect, sprays of *Oncidium Cavendishii* on one side of the handle completed this simple arrangement. W. J. Smyth took second, \$40,

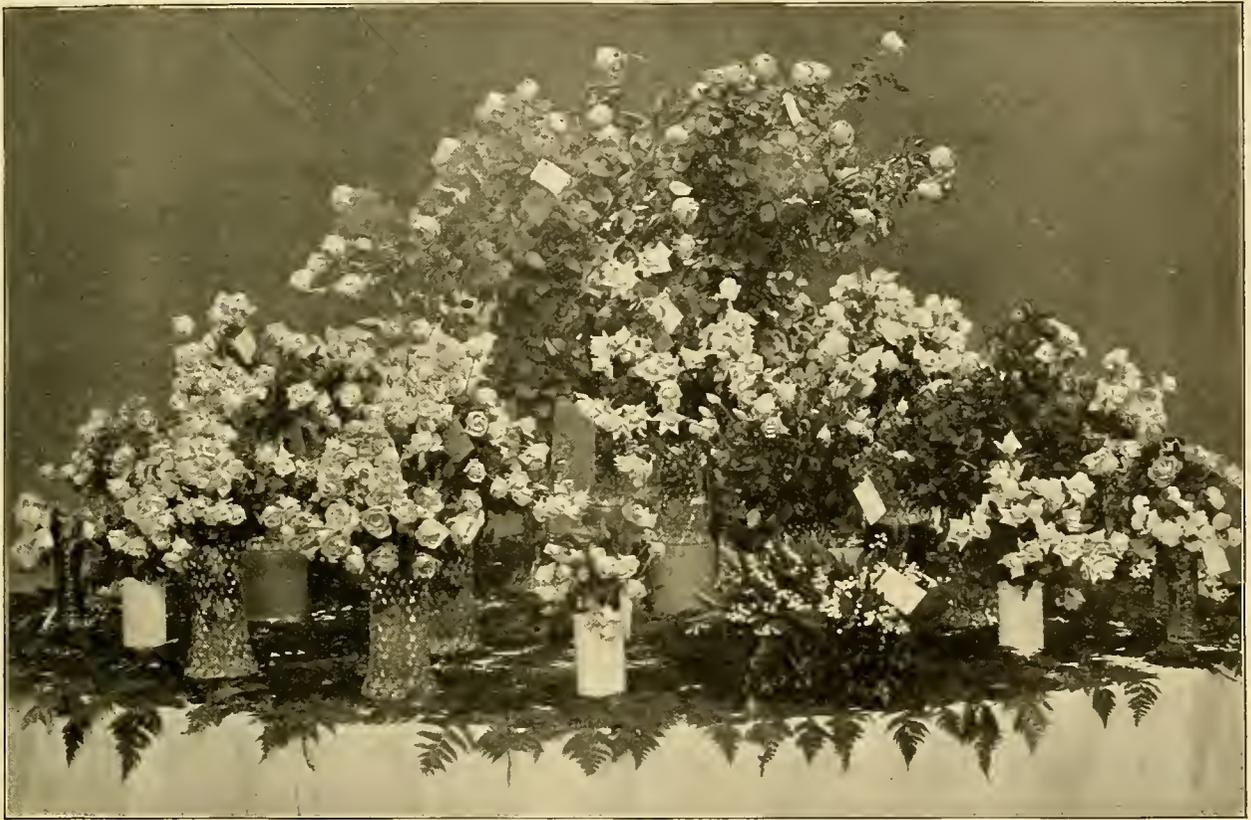
with a high handled oval basket. The handle of this was also trimmed with *Asparagus plumosus* and *Oncidium Cavendishii*; the basket contained a variety of such forms as cattleyas, odontoglossums, cypripediums, etc. The third prize, \$30, went to Anthony & Curran for a tall high handled basket showing one side, the upper half being filled with *Cypripedium insigne* and the lower half with *Cattleya labiata*. *Adiantum Farleyense* was set between the flowers, giving the arrangement a rather heavy effect.

In chrysanthemum baskets there were five entries, Anthony & Curran taking first, \$25, on 50 blooms of Mrs. Jerome Jones arranged in a three foot long common splint market basket, the outside of the basket being covered with autumn leaves. No additional green was used. J. M. Gasser of Cleveland took second, \$15, with a beautiful arrangement of about three dozen blooms consisting of The Queen, Ivory, and Ada Spaulding. The basket was a low round celluloid affair with gilt handle tied with pink ribbon. *Adiantum cuneatum* was added judiciously with fine effect. Third prize, \$10, was taken by W. J. Smyth with a plain high handle basket filled with about 50 Eugene Dailedouze; asparagus was set between the flowers.

In the competition for bouquets three entries showed up. The arrangement showed no startling innovation on the usual styles made for the purpose intended. Lee Walz took first, \$35, with four bridesmaid bouquets of pink carnations with plenty of buds on the stems and their natural foliage for green, these were arranged loosely and tied with ribbons to match. The bridal bunch consisted of Bride roses tied with white ribbon. Second, \$25, went to J. M. Gasser for set of bridesmaids bouquets made of Bridesmaid roses with lily of the valley studded between, ribbons to match. Bridal bouquet of Bride roses tied with white ribbon. W. J. Smyth took third, \$15. Bridal bunch of Kaiserin roses tied with ribbon, four bridesmaids bouquets of Bridesmaid roses with ribbons to match. None of the bouquets in all three entries were large, varying from three to four dozen roses each, and four to five dozen carnations.

On Saturday the competition in rose baskets brought out seven entries, two of these were barred out, being sent in too late. One of these by J. M. Gasser of Cleveland was a beautiful thing, a round basket with high handle. Brides and Bridesmaid roses with *Adiantum* were employed with rare taste. The other was entered by the Gallagher Floral Co.; this was a typical French style affair, a medium sized round basket with extreme high handle, the latter was trimmed with a spray of Meteor, Bridesmaid and Perle roses tied with pink ribbon, the body of basket consisting of Bride roses arranged with their own buds and foliage only with artistic effect.

First prize, \$25, was awarded to P. J. Hauswirth on a round handle basket filled with about 100 Meteors with their own foliage only, the arrangement was loose showing each flower without crowding. Second went to J. M. Gasser for low handle basket, one side of Brides the other of Bridesmaid without additional green. Third was taken by W. J. Smyth with a large showy basket of 100 Testouts arranged with *Adiantum*, the handle being tied with pink ribbon. C. A. Samuelson showed a large basket arranged for front view, the material employed being about 200 Testout and Bridesmaid with *Adiantum*, handle with pink ribbon. The



BASSETT & WASHBURN'S TABLE OF ROSES AT THE CHICAGO SHOW.

arrangement was too massive to be pleasing. Thos. Rogers showed a long square without handle, one-half Meteor, the other Perles with rose foliage only. This arrangement also was rather heavy besides the Perles being of poor quality.

PAID ADMISSIONS.

1st day, Saturday,	1,365
2nd " Sunday,	810
3d " Monday,	1,063
4th " Tuesday,	1,260
5th " Wed., (bad weather).	802
6th " Thurs., (clearer).	1,360
7th " Friday, (rain and slush).	780
8th " Sat. (snow and wind).	1,520
9th " Sun. (cold and wind).	780

Total.....9,740

Under the contract with those controlling the exhibition hall the exhibits were to be all removed from the building by noon Monday, and such a day to move plants! A blustery, biting cold wind blew the fine snow into every crevice and made it practically impossible to move plants with safety. It is to be feared that many valuable plants were seriously damaged.

San Francisco.

The tenth semi-annual show of the California State Floral Society was held November 1-3. The hall was tastefully arranged, and the show was conceded to be the finest given by the society so far.

The Sunset Seed & Plant Co. made a fine exhibit, not for competition. John H. Sievers was awarded prize for best general collection, Mrs. M. P. McLelland for collection of cut flowers, John A. Carbone for collection of roses, and Grallert & Co. for collections of dahlias and carnations. For largest and best collection of plants no first was awarded, but the

second went to K. Sato & Co.; for foliage and decorating plants to Charles Abrahams.

Cut blooms we think as good if not better than before, pot plants not up to former shows. Mr. John Carbone of West Berkeley showed a fine vase of The World, and among his blooms some fine Pres. Smith, Geo. R. Gause and E. Dailedouze.

McLellan Bros., San Francisco, had some grand blooms of H. E. Widener, C. Kruger, Mrs. J. Geo. Iis, Ed. Molyneux and Mermaid. Mr. W. S. Davis, Ross, Cal., showed some grand blooms of Kansas, Waban, Amazon and Queen; among his exhibit he also had some fine pot plants grown to 6 and 12 blooms, The Queen, King of Chrysanthemums, Golden Gate, John Goode and H. E. Widener being the best. Sunset Seed & Plant Co., Menlo Park, had a large exhibit of pot plants in 5 and 6-inch pots grouped around some tall palms. J. H. Sievers of San Francisco made by far the most extensive exhibit of cut blooms, showing 150 varieties in 250 blooms, staged singly among ferns and Areca lutescens, with four grand vases of 50 blooms each of Mrs. Craige Lippincott, H. E. Widener, Mrs. Jerome Jones and Queen.

No premiums were offered by the society for seedlings, but two among H. Yoshiike's (of Oakland, Cal.) were found worthy of certificate of merit, one named W. S. Davis, best described as a full bloom of Edw. Fitler, the other a light pink of immense depth. Among others Messrs. Domoto Bros., Fruitvale, Cal., also had two seedlings certificated, a deep pink with broad petals, center incurving, named Mrs. Hunter, and a deep pink in shape like Joseph H. White, and forming

a perfect round pink globe. Mr. John H. Sievers received certificate of merit for seedling Sievers Jr., very broad petals, creamy white ground, shaded pink and yellow, flower of great depth and substance, also for seedling Pearl Fenton, a novel bloom of great substance and forming a perfect white ball formed of an immense number of straight, but spiral petals.

In the competition for the finest and most admired bloom, the public voting on it, prize was awarded to J. H. Sievers for Eugene Dailedouze, second going to The World, exhibited by John Carbone, and third to Thos. McIntyre for Waban.

The show was very liberally patronized by the public, and received a great deal of enthusiastic newspaper notice.

C. K.

New Haven, Conn.

The annual chrysanthemum show opened here November 7, and was without exception the finest show ever given in New Haven, and we doubt if the quality has ever been exceeded by the larger cities. It was held in a large armory, and thanks to the very large exhibits presented a magnificent spectacle.

Among the plant awards A. N. Pierson, Cromwell, Conn., received first for 6 specimen plants, 4 plants, one specimen, white, one specimen, pink, one specimen, yellow, specimen, any other color, 12 plants in 6-inch pots, 10 plants, white. J. H. Slocombe received first for four pompons, 10 single stem plants, yellow; Wm. Rowe first for seedling plant.

In the cut blooms A. N. Pierson received first for 20 varieties, 20 yellow, 12 white, 12 pink, vase of 20. For group of palms arranged for effect, first, Champion & Co.

Among the numerous exhibitors who sent plants for the benefit of the show were H. A. Allen, C. P. Lines & Co., Mr. Kohein, Robert Paton, Mrs. Gardner, Champion & Co., Robert Veitch & Son, Archibald Veitch, Wm. J. Rowe and Pitcher & Manda. To note the finest varieties we should put down Ivory as being the finest white shown in a plant, though Mr. Pierson showed a specimen of Domination that was actual perfection. In yellow some cut blooms of Eugene Dailedouze stand out from all others in richness of coloring, broadness of petals and general substance and build. Maud Dean seemed to lead in the pink varieties, but with all others of that color it seems to lack that pure pink shade that is so desirable. Mrs. Whilldin and Pres. W. R. Smith were shown in grand shape, every requisite being perfect, but the decided clear color so much sought after was not there. Geo. W. Childs was the best dark sort; some plants were beautiful rich crimson velvet and others probably from too much heat were dull and without character. Mrs. Hicks Arnold also makes a wonderful specimen, but the queer combination of bronze, yellow, tan and snuff color though effective is far from pleasing. V.

Hamilton, Ont.

The show here was finely arranged, and was generally regarded as an improvement, though the miserably inclement weather which prevailed all over the country last week could not fail to affect the number of visitors, still the attendance was good and the concerts by the famous XIII Battalion Band added greatly to the enjoyment of those who were present. Exhibits from the Industrial School, Mimico; Nathan Smith & Sons, Adrian, Mich., and Pitcher & Manda, Short Hills, N. J., were highly spoken of.

In the groups the exhibits of Mr. Aylett, gardener to Senator Sanford, and Mr. E. G. Brown were very fine and specially spoken of by the judges.

For 50 chrysanthemums cut bloom, distinct, for the cup, Mr. J. H. Dunlop of Toronto and Mr. E. G. Brown, Hamilton, made very fine exhibits, the blooms being perfect in size and form, and the judgment was only arrived at after long discussion and by points. In fact all through this class the exhibits could not be beaten anywhere. Mr. Dunlop received first, Mr. Brown second.

In roses, 50, not less than five varieties, for a cup, the exhibits of Mr. H. Dale, Brampton, and Mr. J. H. Dunlop, Toronto, were splendid, and the judges had the greatest difficulty in coming to a decision. The exhibits comprised very fine Mermets, Meteors, Brides, Cousins, Hoste, Sunset and Perles, Mr. Dale being first, Mr. Dunlop second.

A seedling carnation, pure white, shown by Messrs. Spears & Muston, Deer Park, was highly spoken of by the judges.

For chrysanthemum plants E. G. Brown was first for specimen pink, specimen yellow and collection of 12 varieties. S. Aylett was first for collection of 24, and for 24 single stem plants.

For chrysanthemum flowers, W. Scott, Buffalo, received first for vase of 25 blooms, first for 12 distinct varieties, first for 12 blooms, any color, first for 6 blooms, yellow, first for 6 blooms, any other color. A. Gilchrist, Toronto Junction, received first for 25 distinct varieties. E. G. Brown received first for 12 blooms, white, 12 blooms, pink, vase of

25 blooms. J. H. Dunlop first for vase of 50 blooms.

In plant awards S. Aylett received first for group of chrysanthemums arranged for effect with ferns and lycopods, group of foliage plants arranged for effect, specimen palm, group of 6 palms, 12 specimen ferns. F. G. Foster received first for 6 specimen ferns and 12 specimen primulas.

In the floral designs S. Tidy & Son, Toronto, received first for flat cross of white chrysanthemums, first for wreath, and first for flat table basket. E. G. Brown received first for presentation basket.

In the carnation classes J. H. Dunlop received first for 25 blooms, white, 25 blooms, fancy; H. Dale first for 25 blooms, red, 50 blooms, one variety; Spears & Muston first for 25 pink; J. Gammage & Sons, first for 50 blooms, with foliage.

H. Dale, Brampton, received first prize for Perle des Jardins, Mermets, Bride, Wootton, Sunset and any other variety, and for vase of 50; Spears & Muston first for Mme. Hoste. F.

Louisville, Ky.

While the plants at our show were good, still another week would have improved the blooms. In cut blooms we certainly can be proud; each florist simply outdid himself, as we down here have never yet seen such fine specimens. Roses were exhibited by Nanz & Neuner, J. Schulz, Chas. Schleeter, F. W. Wrampelmeier and Wm. Walker. Such a display, especially here, was never before seen—Beauties, Albanys, La France, White La France, Hostes, Bennetts, Niphetos, Brides, Gontiers, Meteors, Belles, American Perfection (introduced by Nanz & Neuner), Perles, Kaiserin, Bridesmaids. Also, as a special feature, although not for competition, Nanz & Neuner made a most elaborate display of roses in general, which took the house, as it is not often that so many hybrids, teas, Bourbon and other sorts are seen this late in season. In point of beauty and general make up our fifth chrysanthemum and flower show stands on record as being a decided success. In attendance there was much to be wished for, owing no doubt to the election and other attractions, but Thursday and Friday were very good and all that was desired.

The judges were F. W. Hibberd and A. Stein. In the plant classes Jacob Schultz received first for 35 plants, first for 5 market plants, yellow. Nanz & Neuner first for 10 standards, first for 25 single stem, first for 15 market plants, first for specimen plant, any color. F. W. Haupt first for 5 market plants, white. F. W. Wrampelmeier first for 5 market plants, any other color.

In cut blooms Jacob Schultz was first for 25 blooms, white; Nanz & Neuner first for 25 blooms, yellow, and 25 blooms, any other color.

Among designs F. C. Haupt received first for funeral design, and Nanz & Neuner first for table centerpiece.

Incidental to the chrysanthemum show the first annual banquet of the Kentucky Society of Florists was held November 8. The decorations were superb. Each corner was banked high with ferns. The tables were laid in the form of a T, the centers were banked with chrysanthemums and roses, at the edges of the tables was a continual garland of smilax, and between every chair a large chrysanthemum was tied with a pink ribbon.

At the opening of the banquet President Jacob Schultz welcomed the members and the invited guests. To those

not members of the society he explained the object of the Kentucky Society of Florists. A toast was proposed to the welfare of the society. E. G. Reimers delivered an interesting address on the objects of the society from the standpoint of the florists. By securing the co-operation of all the florists the advancement of the society is assured. Henry Nanz of Nanz & Neuner spoke on the benefits derived from flower shows. Mr. Nanz believed in having more frequent exhibitions, which, though perhaps at first conducted at a loss, will result in great benefits to the trade and in the encouragement of the displays of amateur florists, of whom there are many in and about Louisville.

E. Power of Frankfort, a visiting florist, paid a high tribute to the chrysanthemum show. Charles Nenner spoke on landscape gardening. Short and interesting talks were also made by John J. Barrett, A. Stickler and others. Mr. J. E. Marrett was toastmaster.

Union, Hill, N. J.

The North Hudson Florists' Club held a very successful show at Union Hill, the first exhibition of the kind ever held in Hudson County. The judges were Mr. Dressel of Bonn & Dressel, J. M. Keller and Rudolph Asmus.

The stage was decorated with group of palms, shown by Max Mosenthin, for which he was awarded a silver cup. In the center was a floral bicycle by Oscar Boehler. A dinner table by John Rickert received first prize.

The chrysanthemum plants were very fine, and among the awards H. Sternhoff received first for 6 bush plants, one kind, 6 two of a kind, 10 single stem plants, 5 single stem plants, and group of miscellaneous plants in bloom. W. Hellebrecht took first for 6 plants, 3 of a kind, E. Bangert took first for best bush, pink, best bush, yellow, best any other color, three standards, specimen standard. C. Dietz received a cup for group of not less than 25 plants. A. Dinker took second for 12 carnations in pots.

In the cut flower section John Rickert was first for collection in vases, vase with other foliage, and for lycopodium. H. Baumann was first for 12 white chrysanthemums, 12 yellow, 6 yellow, M. Hanson first for 12 pink and special for largest chrysanthemum bloom. P. Fisher was first for 6 white, A. Mennie for 6 pink, and Con. Dietz for 6 any color.

In carnations John Birnie received all the first prizes. The awards for roses went to Max Mosenthin, P. Fisher, and C. Zarembo. Hansen was first for violets, Sternhoff for Liliun Harrisii and valley. P. Daly was first with 12 ficus, Lehnig & Winnifield with adiantum, and P. Daly with cyclamens, and Ritman with pansies. The show was much admired, and received much complimentary newspaper notice. It was wound up with a ball in the evening, which was heartily enjoyed by the club members and their guests. J. B.

PADUCAH, KY.—C. L. Brunson & Co. gave an exhibition of chrysanthemums and other flowers November 6 to 8. On one evening a feature was a table decoration of chrysanthemums, followed by a table decoration of roses the next evening. No admission was charged.

STOUCS CITY, IA.—J. C. Rennison gave his annual chrysanthemum show November 6 to 9 in the Peirce block. The admission price was 25 cents, children 15 cents.



MR. E. G. UHLEIN'S DISPLAY OF ORCHIDS AT CHICAGO.

America's Greeting to England's Greatest Rosarian.

The reception and dinner given in honor of the Very Rev. S. Reynolds Hole, Dean of Rochester, England, at New York, on the evening of November 14th, was a most notable occasion. The dining hall in the beautiful Savoy Hotel never looked handsomer, never held a more representative company or a more worthy guest than the eminent man in whose honor they met. The tables were lavishly decorated with pink chrysanthemums, roses and carnations, the central feature being large vases of America's two most recent contributions to the list of florists' roses, the Mrs. W. C. Whitney and the Mrs. Pierpont Morgan.

Mr. W. C. Barry of Rochester, N. Y., presided. In introducing the guest of the evening he said: "We have assembled here to do honor to England's greatest rosarian, and I feel fully justified in asserting that no horticulturist could come to these shores who would receive a more hearty welcome than Reynolds Hole." He assured the gentleman in the strongest terms of the sentiments of esteem felt towards him by every horticulturist in America, that America fully appreciated his work for floriculture and recognized that he had done more than any other man to secure for the rose that position to which the queen of flowers is justly entitled. He referred to the popular enthusiasm over the rose in England, which he believed could be duplicated here had we only a Reynolds Hole, a sentiment which was enthusiastically applauded.

Dean Hole responded: "Gentlemen, I do not believe there is any art or vocation more calculated to make men gentlemen; my brothers rather, I would say, which is far sweeter, for there is no sentiment in the wide world more calculated to encourage true fraternity than the love of flowers. There are red letter days in all our lives. There are occasions which linger in our memory, hours of joy, events that all of us remember, triumphant hours. Our first new jacket, the first watch, the first ride on a pony, when we first fell in love, and it is impossible to be among all this beauty without thinking about love among the roses. I am almost

inspired to remember when I fell most desperately in love when about thirteen years of age, and I wrote my first poetry." The recitation by the speaker of the pretty verses beginning with "When first I saw the golden curls of William Barlow's youngest sister," was followed by tumultuous applause.

Continuing he said: "These happy memories are all closely associated with flowers. In those happy days of childhood who didn't love the flowers, the wild roses, the daisy chains, the wreaths of wild roses, and who doesn't remember his first plant?" He then told of his own first acquisition, a salvia which he bought for sixpence, his acquaintance with Thomas Rivers, Charles Turner and other celebrated horticulturists, his first rose show which was such a success, and the two cups which he won, which made him so happy that an old gardener had said that it seemed as though he would go straight up to heaven, but he wasn't ready. He expressed thankfulness that he had lived to help to promote in some little measure the love of flowers. His principal happiness he found in the sympathy and love of fellow men such as he saw here gathered round him, for where is found true love of the flowers is found the true love of the florist. He expressed further his appreciation of the welcome extended to him, referring in most complimentary terms to Mr. John N. May, who had been the first to meet him on his arrival. Speaking of the parks of New York he said that there was nothing in either Paris or London to compare with the magnificent drive along the Hudson river, and applauded Mr. Parsons for his success in keeping his charge so marvellously true to the principles of nature in the face of so many obstacles. Concluding he extended to all an invitation to visit England, assuring them of a welcome at the Deanery and promising the blessing of the Dean.

Mr. Robert Craig, of Philadelphia, was next called upon. He said he desired to express the thought that was uppermost in the minds of all, gratitude for the opportunity to be here to-night to meet the genial kindly man whom all had learned to revere. He referred to Dean Hole's book on roses as a text book indispens-

able to rose growers and predicted a glorious future for rose growing in America.

Mr. Charles A. Dana was next introduced as a man whose love for horticulture is manifested in a practical manner at his home; the home of the leading editor, also the leading horticulturist in America. Mr. Dana modestly disclaimed the credit. The honor, he said, belonged to Mr. Falconer, and he took great pleasure in thus publicly making this acknowledgement. Dean Hole, he said, was a public benefactor over the whole broad globe wherever the English language is heard. Wherever he goes in this country he will find friends ready to welcome him and find himself beloved by them although they may not before have had the opportunity to see his face.

Dr. Thompson, being called upon to respond to the toast "the public parks of New York," responded briefly, paying his respects to the honored guest and congratulating the city of New York upon her recent political redemption. Mr. W. A. Manda was next called up to speak for the floriculture of the future, which he did in a most eloquent manner, and referred to the advancement of the past ten years as an index of what may be expected for the coming ten, predicting a marvelous development in the near future and concluded with the sentiment that "when the clergy, instead of instructing their congregations as to the difference in creeds, shall take them out of doors and show them the temple of the Almighty, when preachers follow the example of the much beloved gentleman present to-night, then the people will have reached the happiest time possible in human existence and the title of gardener will be the proudest on earth."

At this juncture a new rose was introduced, a beautiful pearly pink sport from Testout, which developed at the establishment of Mr. John H. Taylor, and which Mr. Craig was now asked to invest with an appropriate name. This Mr. Craig did, naming it Dean Hole, and expressing great faith in its future career. The guest of the evening responded, expressing gratitude for the honor conferred, and said that in his fifty years of experience as a rosarian he had never known of

but one instance of real jealousy among florists, and proceeded to relate the story in an inimitable manner amid screams of laughter from his audience.

Mr. C. L. Allen then spoke of floral reminiscences of the past, Mr. J. N. Gerard of gardening as a recreation. Mr. W. A. Stiles and Dr. Hexamer added their tribute of welcome to the guest, and Mr. J. N. May said a few closing words saying that he had first met Dean Hole when but eight years of age and had worshiped him ever since.

At the request of Dean Hole the health of Mr. Barry, who had presided so acceptably, was then drunk, a similar courtesy being then extended to the guest of the evening, and with the singing of Auld Lang Syne the company dispersed.



TO PREVENT RUST.—Dissolve one pound of sulphate of copper in two quarts of ammonia in a 2-gallon jar. When dissolved add another quart of ammonia and stir well. [The liquid can be kept in this form for some time and used as needed.] Add a pint of this solution to a barrel of water and syringe the plants with a force-pump every two weeks. And don't let the time for spraying pass without attending to the operation.

Carnation Notes.

The general impression that this is the most trying season of the year for the carnation grower is well founded. We are too anxious to get the buds to open and during these cold cloudy days the temperature is allowed to run over 60°. This is a very great mistake, better keep the houses at 56° when the sun will not send it higher. The plants then grow strong and of a dark healthy green. Artificial heat may help a few of the buds nearest open to mature, but I believe it tends to retard the balance, at least it is sure to make weak stems for which we have no use. Many a house of carnations has been ruined by overheating. There is scarcely a reader of the *FLORIST* who does not fully understand this fact as well as I and I merely make this statement now because in going through the houses of growers who are considered A1 I have found the mercury on cloudy cold days as high as 75°, and when I asked the grower if he did not consider that degree rather high he was surprised to find it where it was; merely a lack of attention, as he had failed to notice the thermometer.

It is absolutely necessary to keep the plants growing steadily, never allowing a check from any cause. Can you do this and at the same time be playing football? That green mould should not be seen. Why? Simply because it shows that something is wrong and it will only take a few moments to remove it. You never see a healthy bench of plants with mould on it; this often happens when the soil is soaked on top and dry on the bottom. This same condition I find will often produce stem rot. I had a bitter experience in this respect several years ago. I was obliged to use a different soil from what I generally did and as I left the watering to an employee whom I supposed knew his business, coming to me as a thorough greenhouse man, I did not examine the work thoroughly. The plants began to droop and the mischief was done. What plants were left were watered after that and I had no more trouble.

Then rot does not always arise from lack of water but from too deep planting. This point has often been mentioned in these columns and is now generally understood. As I have made a great many tests in the deep planting of seeds outside one of them may throw some light on the cause of failure from deep planting. Four lots of corn were planted on the same day in one continuous row. One lot was barely covered; lot No. 2 was planted one-half inch deep, lot No. 3, one and one-half inch and lot No. 4, two and one-half inches. Results; lot No. 1 germinated in four days; lot No. 2 in six days; lot No. 3 in eight days and lot No. 4 in ten days. After a period of three weeks the last lot was yellow and very poor. Upon examination the stems below ground and just above the kernel were found to have decayed and new roots were starting just under the surface. This same test I have made with soft wooded plants such as coleus and the results have been almost identical with the corn mentioned. This new root growth I have never noticed to any great extent on stem rotted carnations and I do not think it will appear, as the plants are too far advanced in growth to allow of it. CHARLES H. ALLEN.

Charles Jackson Dawson.

Charles Jackson Dawson, the son of Jackson Thornton and Minnie McKenna Dawson, was born in Jamaica Plain, Mass., October 17, 1871. From earliest boyhood he exhibited great fondness for plants and plant growing, taking naturally to the craft and the art in which his father has made such a distinguished success. At the age of eight years he was employed during the time which could be spared from his schooling in such greenhouse work as was suited to his capacity, and ever since has been continued in the same employment in the same situation. After completing the course at the Roxbury high school he became a student at the Bussey Institution of Harvard University; at the same time he was given practically the control of the greenhouses connected with the school. This confidence reposed in a man so young was not misplaced, as has been repeatedly proved in the many exhibits which have been made by the Bussey Institution at the shows of the Mass. Hort. Society. Several of these exhibits have been illustrated from time to time in this journal; many of them have attracted attention from their originality, and by the true genius displayed in the growing and arrangement of many varieties of plants not commonly grown under glass.

At the Bussey Institution the forcing of many hardy plants during February, March and April is required, the material so obtained being used by the botanical classes at Cambridge. Mr. Dawson showed great proficiency in so handling these plants that the supply was ready at the day appointed, and in sufficient quantity to meet the wants of about two hundred pupils; no small task when it is known that from twenty to thirty thousand specimens are used every year. The main points in this line of work he has put in print in an article read before the Gardeners' and Florists' Club of Boston, which has also been printed in the *AMERICAN FLORIST*. From time to time Mr. D. has also contributed notes on trees and shrubs growing in the Arnold Arboretum to *Gardening*.

This course begun so young bids fair to make a good finish. Gardening as practiced to-day is perhaps lacking in good all round men. It is hoped that the ex-

ample set by the subject of this sketch will be followed by other beginners who wish to become adept in the art, and help in the advancement of the craft.

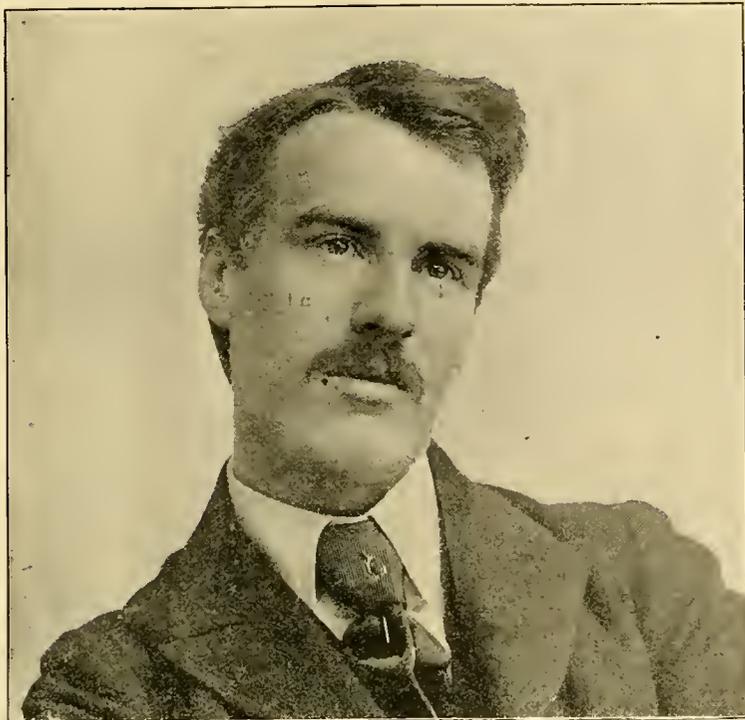
B. M. WATSON.

New York.

The November meeting of the Florist's Club excited especial interest from the fact that next year's officers were to be nominated, and a representative gathering was present. The balloting resulted in the nomination of the following gentlemen for the various offices: For President, Chas. H. Allen; vice-president, J. M. Keller, Rudolph Asmus; treasurer, C. B. Weathered, Julius Roehrs; secretary, John Young, W. F. Sheidan; Trustees, J. H. Taylor, S. C. Nash, Jas. Dean, Theo. Roehrs, A. T. De La Mare and J. N. May. It was announced that at the December meeting Mr. Sam'l Burns would deliver an essay upon improvements in greenhouse heating. Mr. John Morris set an animated discussion agoing by asking whether anyone could tell how to produce branching rubber plants such as are grown by W. K. Harris of Phila. Mr. Forsterman said that strong nourishment would do the work. Mr. Dean advised that plants be repotted in February or March, fed freely in plenty of heat and then plunged out in July when some four or five out of a dozen would be found to have branched. No trouble to get dwarf branching plants, he thought; the only trouble is to get the price for them. Mr. Henshaw advocated laying the plants on their sides to force breaks from the joints. Mr. Manda thought there was no secret about Mr. Harris' accomplishment. Grow enough of the rubbers and grow them long enough and a good proportion will come with branches. Mr. O'Mara summed up the case sagely and agreed with everybody. Mr. Joseph A. Dirwanger of Portland, Me., being present was called upon for a few remarks and responded with one of the neatest little speeches imaginable.

The floral exhibit on the occasion of the monthly meeting of the Farmers' Club at their rooms, 111 West 38th street on Tuesday and Wednesday, November 13th and 14th, was not large but exceedingly choice and interesting. Mr. J. N. May staged his two new roses, Mrs. W. C. Whitney and Mrs. Pierpont Morgan, the latter, a sport from Mme. Cusin, being awarded a certificate of merit. Mr. May also received certificates for seedling carnations as follows: Dean Hole, a fine yellow resembling Buttercup; Maud Dean, somewhat similar in color to Orange Blossom, and Lena Saling, a beautiful glowing cerise. Honorable mention was given to three promising seedling chrysanthemums from Mr. May. W. A. Manda received certificates for new coleus Malcom McRorie and C. B. Weathered and for *Adiantum capillus veneris imbricata*; also H. E. Chitty received a certificate for new white carnation Alaska, and Siebrecht & Wadley for rose Belle Siebrecht. Handsome carnations were shown by J. A. Suydam & Co. and Dailedouze Bros., chrysanthemums by Ernst Asmus, Alex. McKenzie, J. N. May, Geo. H. Hale and others. Interesting remarks upon the history and classification of chrysanthemums were made by Mr. W. A. Manda and on cultural points by Mr. J. N. May. Rev. S. Reynolds Hole visited the exhibition on Tuesday afternoon.

Siebrecht & Wadley's exhibition at the Eden Musee is a very attractive display prettily arranged. The reception hall



CHARLES JACKSON DAWSON

with its great centre group of splendid palms, crotons and other decorative foliated plants and chrysanthemum bordered corridors forms an appropriate entrance and gives the visitor that good first impression which counts for so much. The music hall beyond is the location of the main exhibit. The arrangement here is very pleasing and is done as well as the limited space will allow. The walls and balconies are profusely hung with wild smilax and the groups are so arranged as to make the most of the reflections in the big mirrors.

The centre piece is a noble plant of *Caryota sobolifera* not less than thirty feet in height surrounded by a group of chrysanthemums grown to single stem and bloom. These chrysanthemums were contributed by Peter McDonald of Summit and were awarded first premium in their class. Similar groups with towering tree ferns, *livistonas*, etc., in the centre occupy the floor, while the cut blooms and smaller plants form a brilliant border around the entire hall.

The most attractive spot for many is the front of the stage where are massed the orchids and choicer stove plants. Here are cacteyas, oncidiums, cyripediums and vandasia in profusion interspersed with delicate ferns and backed by palms, with a noble specimen of *Sphaerogyne latifolia* in the middle. Premiums for chrysanthemum plants and cut blooms were awarded to Claude Wilson, Mr. Webber, gardener to J. Hood Wright, Ernst Amus, John Beatty, W. Cowan, F. Welsh and others. Special premiums were given to Peter McDonald, for ten orchids in bloom, and a specimen plant of *Oncidium varicosum* var. *Rodgersii*; to F. Welsh for a well bloomed plant of *Vanda cœrulea*; to Siebrect & Wadley for a very fine form of *Vanda cœrulea* and for hybrid tea rose, *Belle Siebrect*, and to Geo. T. Schuneman of Blue Point for violets of superlative quality. Messrs. Siebrect & Wadley are to be congratulated,

not only for their enterprise in carrying out such an undertaking, but also on the good will shown towards them as evidenced by these contributions from their brother florists.

Dullness and uncertainty still prevails in the cut flower trade. The overstock of chrysanthemums has slackened up and the worst is over in this line. Roses are not so heavily overloaded as last week and consequently there are not so many to carry over. The horse show has created a temporary excitement in the violet market and doubled up the prices for the present, and American Beauty if first class also feels the impetus of this great social event. Cold and stormy weather has interfered with the operations of the street vendors, consequently those growers who send in stock of inferior quality which has to find its outlet through these people are not likely to swell their bank account to any considerable extent under prevailing conditions.

Thos. W. Weathered arrived from England on City of Chester greatly improved in health.

Philadelphia.

Business is fair with occasional spurts in spots. The last few days have been cool and bracing and stock generally is showing up better. Chrysanthemums are now at their height and at certain hours of the morning pedestrians on Chestnut street are in danger of being pushed into the gutters by the hustlers as they go tramping from one store to another with their great boxes of "mums." One of these gentry with a full load on takes up almost the entire sidewalk. When three or four happen in a store at one time and spread their boxes around there is scarcely room for customers and when ten can be counted in front of the counter (this we believe is the record) it is needless to say they run the store.

"Mums" are selling at all prices, 20

cents per bunch for common field grown sprays, \$2 per hundred for good small flowers in sprays, larger flowers at \$4, another size 75 per dozen and from that up by degrees to \$2 per dozen for very fine and \$2.50 for extra Dailedouze which latter variety is we believe given the place of honor. There is a fairly good demand for this flower in spite of the predictions as to its failure, those growers who will be able to bring in good flowers two to three weeks from now will find a ready market for them at fair prices.

Roses have improved in quality but the prices remain the same with the exception of Beauties, which now bring \$2.50 per dozen for good stock; Heacock, Burton and Lonsdale are carrying good Beauties. Testout is getting into form and \$5 is asked for the best. Other good teas bring \$3 and \$4, while for all the small varieties \$2 is still high. Double violets are scarce and 65 cents per hundred is asked. Single too are hard to get in quantity, and sell for \$3 per hundred bunches. Carnations have never been finer at this season nor have they ever sold so low considering their quality and the time of year; \$1 is still asked for the best, \$1.25 has been asked but just to see how the market would take it, as no quantity can be sold at this figure as yet. Swainsona is to be seen occasionally and sells well; this will become a staple flower. Mignonette is in and sells well, \$1.50 per hundred is the price. Smilax sells slowly at 12 to 15.

K.

Washington, D. C.

There is but slight improvement in trade over last week. Chrysanthemums are in full force, crowding the other flowers off the field to a great extent. The demand for the cut bloom is good especially for those selling from \$1 to \$3 per dozen; there is but little call for the higher priced single flowers. There is a demand for plants having from five to ten flowers in small pots, selling from 25 to 50 cents each, while those in large pots that bring from \$1 to \$3 go slow. Roses are coming in good, demand only fair. Violets more plentiful and much better in quality. Carnations a little better in quality and more plentiful. The trade for window plants has hardly opened, and will probably continue slow until the "mums" are gone.

While the club has had no exhibition this fall each of the store florists has had a private exhibition free to all, showing some excellent flowers and attracting crowd each afternoon and evening. These private exhibitions will probably be the means of the club making another effort next year to have a show, at least this is the talk of some of the florists.

Mr. C. F. Hale who has just returned from Frederick, Md., where he went as judge at the chrysanthemum show held there last Wednesday is high in his praise of the wonderful success these people have made in the culture of this flower. He says both the specimen plants and cut blooms were as fine as any he has ever seen and would have done credit to New York. They are up to date as to varieties and as Mr. Hale puts it as to culture too. He says it was a matter of love and ambition that prompted those people to go into the culture of the "mums," in no sense was it professional all being amateurs and what was more to their credit they were mostly all grown out doors, the only protection at night being canvas. If the same spirit existed among our profession in large cities, says Mr. Hale, what an immense show we could have.

The single specimens both plants and bloom were excellent, in fact Mr. H. says he had never seen finer. They offered premiums for both plants and flowers, mostly in collections of threes and sixes.

Last Friday profoundly impressive ceremonies were held at the Russian legation here in memory of the late Czar Alexander III. As there is no Greek church in Washington the parlors of the legation were for the time being transformed into a place of worship, with an altar for the celebration of the mass and ritual of the Greek faith. About the altar were banked palms and ferns reaching from the floor to the ceiling, extending across the entire room. Among the ferns were immense clusters of white chrysanthemums gracefully arranged so as to fall outward; out of the center of these plants and flowers arose a Greek cross of crimson velvet, bearing on its arms mosaics of the Saviour and Madonna. The altar cloths were of rich yellow satin embroidered in gold while the censurers, candelabra and vessels of the sacrifice were in unique oriental workmanship. The decoration was by C. F. Hale. The president, cabinet and all the foreign diplomats were invited and attended in a body.

The magnificent display of chrysanthemums at Small's floral establishment attracted an immense crowd all the week. The exhibition is complete and artistic in every detail. In main window of the store a picturesque stump extending its bark covered limbs to the ceiling affords a resting place for some fine orchids with a ground work of ferns, *Adiantum cuneatum* and *Farleyense*, with a small fountain in the center. At the foot of the tree was a bank of *Cypripedium*; at each of the four corners of the window were bunches of magnificent chrysanthemums. The "mums" which naturally were the chief feature of the exhibition were unusually fine, both in size and color, and included the choicest as well as the most popular varieties. There are also other flowers, orchids, roses, ferns and palms. At the rear of the spacious store was a wedding decoration and along the sides were plants with brilliant flowers backed by ferns made all the more effective by myriads of tiny electric lights.

REYNOLDS.

Boston.

The annual chrysanthemum dinner of the Gardeners' and Florists' Club at the Tremont was altogether one of the most successful of the many festive occasions in the club's history. Among the faces in the long rows that lined the gorgeously decorated tables were numbered many welcome guests who had come from neighboring and distant states to admire the crowning triumphs of American chrysanthemum culture at Horticultural Hall and to meet and congratulate the growers to whose skill and devotion Boston's supremacy in this line is due.

"You will now come to order, gentlemen," said President Welch as soon as the menu had been satisfactorily disposed of, and with a few preliminary words of cordial welcome to the many eminent visitors he introduced the toastmaster of the evening, Mr. Edward Hatch, "who it is that can polish you off to the queen's taste." Uproarious applause followed this expressive announcement and the popular toastmaster was assured in boisterous chorus that he was "all right."

The first speaker called upon was Prof. B. M. Watson of the Bussey Institution, who was listened to with close attention as he paid an eloquent tribute to the

achievements of the florists' organizations in America, whose work in behalf of the profession he likened to his own work as a teacher, claiming that he would feel perfectly satisfied with the results of his labors if he could make the same advance in the education of young men as had been attained by the chrysanthemum growers in their chosen specialty. Mr. E. M. Wood of Waban Rose Conservatories was next called upon. In the course of his remarks he recounted his experiences of the past twenty-five years in marketing flowers, which he claimed was only second in importance to growing them, and brought down the house when he referred to the wholesale florist as a luminary that "shines for all," and alluding to the new methods of marketing advocated by some, quoted from Shakespeare to the effect that "we'd better endure the evils which we have than to fly to others which we know not of."

A mighty cheer greeted the "Nestor of Boston florists," Mr. John Galvin, and "He's a jolly good fellow" was sung with a will. Mr. Galvin told of the pleasure it gave him to have the opportunity to look upon the old and familiar faces as well as those that were younger and reverted to the time in his recollection when it was "as hard to find a gardener as to find a millionaire," and when a man would have been adjudged crazy if he had predicted that such a gathering as the present would ever become possible.

Two "big men from a little State" were Mr. T. O'Connor and Mr. T. McCarthy of Providence, R. I., who received an enthusiastic welcome. Mr. McCarthy, who is superintendent of Swan Point Cemetery made a facetious allusion to the bond of sympathy which exists between the florist and a man in his position, promising to do any service in his line for them in the future if called upon, which brought Mr. Hatch to his feet with a vigorous protest against such a possibility in his own case for many years to come.

Judge Hoitt spoke for New Hampshire. He paid a high compliment to the gardeners who had contributed to the great display in the hall across the street and congratulated the committee who had made such a success in arranging for the feast and said that no man does justice to himself if he does not attend these annual festivities. The judge kept up a continuous fusillade of wit of which Messrs. Hatch and Norton were his special victims and the repartee between these two worthies was indescribably funny.

New Jersey had an eloquent representative in the person of Mr. W. A. Manda who referred pleasantly to the time when he was a Bostonian and to the early days of the club. Chrysanthemum shows, he said, were then in their infancy, and much merriment was created by his narration of the circumstances connected with his first contribution to a chrysanthemum show, when he had been advised not to exhibit lest he should hurt the feelings of another prominent exhibitor without whose favor it was not believed possible to conduct a successful chrysanthemum show. He concluded by asserting that he had never before seen such grand blooms as were now on exhibition at Horticultural Hall. Mr. Sam Goldring from Albany, N. Y. and Mr. Jos. A. Dirwanger from Portland, Me., were also heard from and both brought kindly greetings. Messrs. M. H. Norton, Lawrence Cotter, J. Nicol, W. H. Elliott, J. H. Woodford, Jackson Dawson, T. W. Dee, W. J. Stewart and other local lights

made brief remarks, and Messrs. Carroll Galvin, C. J. Dawson and Walter Mott rendered several songs with great success. The concluding speech by Warren Ewell was the great event of the evening. Telegrams conveying cordial greetings were received from Mr. Edwin Lonsdale of Philadelphia and Mr. J. S. Cowles of Newport, R. I.

The collection of twelve specimen plants from W. Hunnewell which took first prize at the chrysanthemum show consisted of the following varieties: *L'Enfant des Deux Mondes*, W. H. Lincoln, *Arethusa*, Mrs. E. B. Freeman, *Vernal Falls*, Iora, *Pink Louis Boehmer*, Miss Minnie Wanker, *Portia*, G. W. Childs, *Primula* and *Columbine*. These plants bore from 200 to 250 large blooms each.

Among the visitors to the show in addition to those participating in the after dinner exercises were C. G. Weber and C. H. Joosten, of New York, D. H. Burns, Yarmouth, Me., Wm. Henry, A. H. Winggett, and J. Folwell, Lenox, Mass., G. McWilliam, Whitinsville, Mass., E. O. Orpet, So. Lancaster, Mass., A. Brandt, Wm. Nicol, Saml. Peck and R. McLeod, Newport, R. I., J. H. Fanning and C. W. Smith, Providence, R. I., A. Wallace, Portland, Me., Geo. H. Mass, Brattleboro, Vt., Robt. Patterson, Portsmouth, N. H. and C. Warburton, Fall River, Mass.

Aster grandiflorus from Rea Bros. and *Aster trinervis*, a novelty from Japan shown by George Hollis, were much admired on account of their beauty as well as their late blooming season.

The customary fall auction sales of dormant roses, etc., by N. F. McCarthy and Edward Hatch have realized prices fully up to the average of previous seasons.

Peter Ball is cutting *American Beauty* in fine quality and the market needs them all.

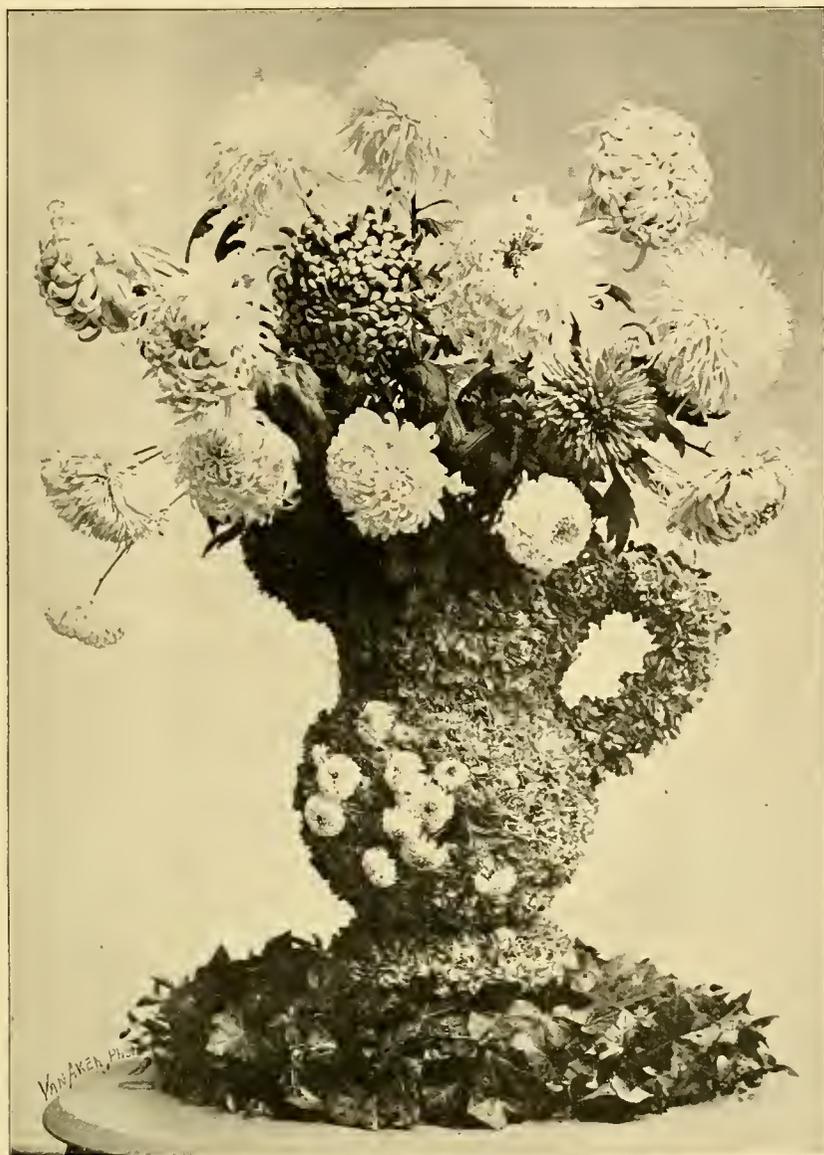
Buffalo.

Winter came down with a flop and covered us with four or five inches of snow. Never mind; it makes the "mums" look all the better. Several of the stores have been making extra fine displays of chrysanthemums, and instead of a chrysanthemum show there has been a series of small shows. Rebstock was the first; then came W. J. Palmer & Son, Anderson, Adams, and now Scott is holding forth. I can hardly say that chrysanthemums have lost any of their popularity in this city; they sell quite as well as last year. There is no use of these megatherian flowers; people don't want them and will not pay for them; about \$2.50 or \$3 is what a dozen first-class flowers will bring, extra choice a dollar more, and plenty of good flowers go at \$1.50 per dozen. Roses are coming in to town in increased quantities, and quality A1. Carnations and violets are plentiful enough. It matters not what you have now; they are all overshadowed by Miss M. Wanamaker or Engene Dailedonze.

A good turn out of the club was held at the house of the treasurer, Mr. E. I. Mepsted, on Tuesday last. A very interesting paper was read by Mr. Wm. Legg, "Recollections of gardening at Hampton Court."

On all sides you hear them say "too bad we don't have an exhibition." If they will only keep this sentiment alive we shall fall in line another year, and I hope sincerely we will.

Mr. Mepsted recovered quickly from his severe illness and was able to take himself and a few boxes of "mums" over to Ham-



AN ARRANGEMENT OF CHRYSANTHEMUMS BY G. P. RAWSON, ELMIRA N. Y.,
DISPLAYED AT HIS EXHIBITION.

ilton for exhibition, where he had to compete against some dandies, but he returned with a fair share of the premiums.

I took a run to Corfu the other day. They are all looking fine, and an immense lot of carnations will be cut there this winter. T. A. Webb grows Daybreak, W. Scott, Portia, Lizz e McGowan and Nellie Lewis. Besides roses and carnations he had one large house of chrysanthemums of the very first quality; in fact they have been the largest flowers sent to town this year. He only grows a few varieties, but he grows them well; Mrs. Whilldin, Minnie Wanamaker, W. H. Lincoln and Ivory are what suit him best. Mrs. Edwards' houses are looking fine, carnations and violets in good order. Mr. Giddings is cutting a large lot of A1 carnations; with the exception of a few violets his whole five houses are carnations. Mrs. Tyrell besides four houses of carnations has one house of violets, and they are doing grandly. Her latest house built last summer is butted glass, with the cypress bar and cap, and she says "No more putty for me." She is delighted with the house, and so is everybody after

they have once had the sense to try it. At the east end of the pretty village are the four carnation houses of Wm. Scott. I found his son Aleck, who runs the establishment, indoors practicing a new duet on the piano. He has only been married about a year, and will in all probability soon outgrow that sort of thing. The carnations are in good order, but rather backward. A few flowers of Sweetbrier show up good; it is a beautiful flower, and if it's a good producer is a very valuable variety.

Your correspondent had the great pleasure as well as honor to act as one of the judges at the big Chicago show. He has seen several good shows both east and west, but sincerely thinks it was for general effect the best up to date. Few cities have such a spacious hall to hold an exhibition in. Without in the least criticising, it was to be regretted that the magnificent vases of chrysanthemums—hundreds of them—as well as roses and carnations, could not have been displayed on the ground floor. They were largely in the galleries. I suppose it was impossible to give them room downstairs. My

colleague Grove P. Rawson has reviewed the varieties at such length that I won't attempt to do anything of the kind. I predict a bright future for Dorner's new red, E. M. Bigelow, and Vaughan's new Japanese yellow, Mrs. W. H. Rand, is a most distinct and beautiful flower which all retailers must have. The list of varieties is now overwhelming. Mr. Bennett said he grew 500 varieties; Mr. Rawson thought he had about 300 sorts; to try and remember distinctly one-third of the number is enough to produce paresis, or rather irritation of the diaphragm. Chicago does everything on a large scale, and when you have such enthusiasts as Mr. Chadwick and Mr. Egan at the helm things have got to go. That little party round the round table will long be remembered, and for a hearty welcome and many kindnesses I am ever grateful.

W. S.

Worcester, Mass.

The inclemency of the weather during the past week caused a very material decrease in the sale of flowers, but we have not such an accumulation of stuff as to cause any uneasiness. The "Queen of Autumn" still reigns supreme and the windows are filled with splendid flowers, the largest blooms averaging from twelve to fifteen inches across the top. Roses are good and selling well, and carnations are improving every day; violets are the only thing that are not very plentiful, the snow having put an end to outside Russians.

The annual meeting of the Worcester County Horticultural Society was held November 7 and the following officers elected for the coming year: President, Henry L. Parker; vice-presidents, Stephen Salisbury, George E. Francis and O. B. Hadwen; secretary, Edward W. Lincoln; treasurer, Nathaniel Paine. After the regular meeting the trustees held their annual meeting and elected Pres. Parker and Fred H. Chamberlain auditors; judges, Albert H. Lange on flowers, James Draper on fruits, and Charles Greenwood on vegetables. Messrs. O. B. Hadwen, James Draper and F. A. Blake were appointed a committee to arrange for public meetings to be held weekly this winter. A. H. LANGE.

DETROIT, MICH.—There was no regular chrysanthemum show here, but several of the florists held private exhibitions, advertising them freely. B. Schroeter has opened a new store at 59 Miami avenue, where he held an opening exhibition. The Detroit Floral Co. held a chrysanthemum show at their houses, so did Breitmeyer & Sons, who have been doing some very attractive advertising. S. Taplin has been busy with funeral work and nursery planting.

ST. JOSEPH, MO.—On November 3 Mr. D. M. Reichard reopened his city store at corner of 5th and Francis streets, and on the opening day made a grand display of plants and flowers that was warmly commended by the local press. The visitors were so numerous that during the afternoon the street in front of the store was pretty well blocked with carriages, and the "opening" was altogether a pronounced success.

ASPINWALL, PA.—Messrs. Zieger Bros. now have about 8,000 feet of glass in which they grow cut flowers and bedding plants mostly for the wholesale market.

JACKSONVILLE, ILL.—Mr. Frank J. Heinl has been elected county clerk.

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The Florists' Protective Association.

This offshoot of the national society has surely accomplished a great work. The annual dues of \$5 are ridiculously low, considering the direct money value of the confidential reports to members. Rarely a week goes by but what we hear of instances where members were saved from making bad accounts by the inside information supplied by the association. If everyone in the trade should join and assist in completing information on file with the secretary it would soon be absolutely impossible for any dead-beat to do business, and the association has already made it mighty hard scratching for them.

It is to the interest of every buyer as well as seller to have the dead-beats weeded out and drummed out of the trade. To be sure a wellintentioned man is occasionally listed when non payment is due to reasonable counter claims. But this is rare, and as the facts are sure to come to light on investigation the right result is attained in the end. And there is no dealer to whom the reports of the association are not worth many times the annual dues in the course of a year.

Lilium Philippinense.

L'illustration Horticole says: "This species although of but recent introduction has already taken a position of great eminence and merits to be classed among the most beautiful and useful lilies. It has the advantage of taking up but little room, its stem is slender, the leaves short, its height modest, hardly exceeding 15 inches. From this point of view and also on account of its perfume being less violent it excels *L. longiflorum*, the flowers of which are certainly larger and more effective but are also a little cumbersome. *L. philippinense* was discovered by M. Roebelin the well known collector of orchids. It flowers in summer, grows easily in pots of small size and gives remarkable flowers in proportion to its stalk."

Work for the Rose Society.

Here's an opportunity for ye Rose Society: To test and report on Belle Siebrecht, Mrs. Pierpont Morgan and the new rose from Tiffin, Ohio, before some of us burn our pockets and have nothing to show for it later on, save dearly bought experience, if failure is the result, as it often happens in proving novelties.

You cannot always judge on the face of a thing what the fact is going to be; the proof of the pudding includes the sauce.

G. P. R.

OWING TO pressure of other matter we have been obliged to defer the promised illustrations of the mantel and table decorations at Chicago to a later issue.

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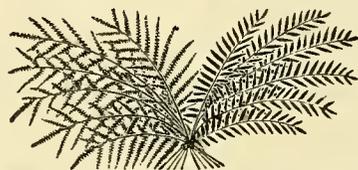
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vantage than in a copy of our trade
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BEANS, especially wax varieties, are a little lower in price.

MR. E. SCHAEFFEL is making a business and pleasure trip to California.

VISITED CHICAGO: F. W. Barteldes, J. E. Northrup, I. A. Robbins, C. C. Morse.

JANUARY 1, '95 is the date for Vol. 1 No. 1 of a new horticultural trade journal backed by a leading florist and seedsman.

RED WETHERSFIELD onion does not seem to weaken; we hear of sales at \$1.35, and few sellers at that. Yellow varieties are rather easier.

CARIBOU, ME.—Geo. W. P. Jerrard has disposed of his seed business to the G. W. P. Jerrard Co. and will go south for the winter. Seed potatoes are a specialty with this house.

ST. LOUIS.—On the morning of November 4 the entire stock of seeds, etc. in Jos. F. Dickmann's store at 1110 North 3rd street was totally destroyed by fire, there not being \$5 worth of salable stock left, the total loss on stock of seeds and fixtures amounting to at least \$6,000, and on the building \$2,000. At this date, November 6, the work of clearing up the burnt stock is being pushed forward and by December 1 it is expected that the 3rd street store will be again ready for business. At present time all orders are being cared for and stock received at the Gravois and Oregon avenue store and warehouse.

IT IS BELIEVED that the Secretary of Agriculture will ask the next Congress to abolish the distribution of seeds. In view of this fact concerted action of the American Seed Trade Association as a body and by its members as individuals through their representatives in Congress ought to be made promptly and energetically that this long rooted abuse may be done away with. The injustice of the plan to tax the general public to pay for seeds that the Department may give away to those who are too lazy to save or too stingy to buy needs no argument; it is but one of the many very plain reasons why the Government seed shop should be abandoned.

ASHEVILLE, N. C.—The Idlewild Floral Co. held a very attractive chrysanthemum show at their greenhouses, opening Nov. 1. The plants were very fine throughout, including most of the newer sorts. Seedlings originating at Idlewild were also shown, among them Deaconess, a large white. A children's chrysanthemum show was also held in Asheville, the exhibits being plants given to the school children last spring by the Idlewild Co.

ST. JOHN, N. B.—Mr. D. McIntosh, gardener to J. A. Allison, Esq., was married on October 17.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head

SITUATION WANTED—By a German florist; 12 years' experience around greenhouses. Good references. Address KANSAS, care Am Florist.

SITUATION WANTED—By competent gardener and florist; married man; life experience. Best references. GARDENER, 123 Scoville St., W. Cleveland, O.

SITUATION WANTED—By German, as gardener and wife as first-class cook, in private place. 15 years' experience. References. Address Box 51, Oak Park, Ill.

THE BROWN BAG-FILLING MACHINE CO.,
MANUFACTURERS OF
AUTOMATIC MACHINES FOR PUTTING UP SEEDS,
FITCHBURG, MASS.

FOR THE SEED TRADE
ONION SETS,
SWEET PEAS

Vaughan's Seed Store,
New York: CHICAGO:
 26 Barclay Street. 146-48 W. Washington St.

AND A GENERAL LINE OF FLOWER SEEDS, GARDEN TOOLS, ETC.

Cox Seed & Plant Co.
SAN FRANCISCO, CAL.,
Seed Growers
AND NURSERYMEN.

Contract Price List on application. . . .

FROM JAPAN.—Bulbs, Seeds, Trees, Palms, Etc.
FROM AUSTRALIA.—Araucarias, Palm Seeds, Etc.
FROM CALIFORNIA.—Bulbs, Seeds, Trees, Etc.

Orders booked up to Dec. 1 for Creas Revoluta Stems. Send for our new and interesting Catalogue '94-'95.

H. H. BERGER & CO.,
 (Established 1878) *SAN FRANCISCO, CAL.*
 Oldest and most reliable import house.

WHITE ROMAN HYACINTHS
AND
Paper White Narcissus Grandiflora,
 at closing out prices.
 Address **C. H. JOOSTEN,**
 3 Coenties Slip, **NEW YORK.**

BULBS.
Hulsebosch Bros.
ENGLEWOOD, N. J.
SELL ALL KINDS CHEAP.

SITUATION WANTED—By practical plantsman of executive ability; general propagation, and growing of all requisites of commercial places. Items of the nursery, cut flowers, roses, carnations, etc. Best of references. Address PLANTSMAN, care Am Florist.

WANTED—Office man and correspondent who is familiar with plant business. Give particulars to J. D. EISELE, Dreeer & Nursery, Riverton N. J.

WANTED—To rent with lease, a florist place with two or three greenhouses in or around Chicago. Address CULTIVATOR, care American Florist

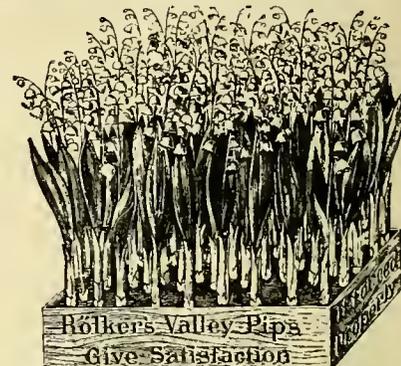
WANTED AT ONCE—Second-hand hot water boiler to heat 120 square feet glass; also 4-inch pipe. Address W. P. RANSON, Junction City, Kan.

WANTED—A thoroughly competent man for raising fruit, flowers and vegetables in hothouses. Must give reference. Address C. H. MICHELL, Opera House Block, Detroit, Mich.

FOR SALE CHEAP—Large second-hand florist's ice box, value about \$75. VAUGHAN'S SEED STORE, 88 State Street, Chicago.

FOR SALE—A rare chance; well established florist business in a live Illinois city. No competition. Will sell cheap for cash. For particulars, address T. Z. MORGANELL, care Tuscola Floral Co., Tuscola a. Illinois.

ALWAYS mention the AMERICAN FLORIST when writing to advertisers.



BEST GERMAN FORGING PIPS
 \$9.00 the 1000 by the box of 2500;
 \$10.00 the 1000 for less quantities.
 Less ten per cent. for prompt cash.

August Rölker & Sons
 New York, P. O. Station E.

All American Firms
TRADING WITH EUROPE
 In any kind of nursery stock, seeds or bulbs, should consult the "HORTICULTURAL ADVERTISER." Our paper is the Trade medium for Great Britain, and is also sent to all the principal firms on the Continent.
 We are desirous of increasing our circulation in the States and will place the first 200 firms sending their card on our list for twelve months gratis. The ordinary subscription is 75 cents per annum to cover postage only.
 ADDRESS EDITORS OF THE "H. A."
 Chilwell Nurseries, NOTTS, England.

WE SELL BULBS
 Special low prices to
Florists & Dealers.
WEEBER & DON,
 Seed Merchants and Growers.
 114 Chambers Street, **NEW YORK.**

READY NOW.
Black Calla Bulbs
 Extra size, \$10.00 per 100.
CASH WITH ORDER.
CHAS. SCHWAKE,
 404 E. 34th Street, **NEW YORK.**

Choice Florist Seeds.
 Pansy, Calceolaria, Primula, Cineraria, choicest strains, at 25 and 50 cts. per trade packet.
 Special quotation on **BULBS.**
W. A. MANDA,
 The Universal
 Horticultural Establishment, **SOUTH ORANGE, N. J.**

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

Plants AND Cuttings.

ACHYRANTHES, ALTERNANTHERA,
COLEUS, CARNATIONS,
CUPHEA, GERANIUMS,
AND SOME OTHER STOCK.

We have no price list. Will quote prices here when ready to ship, or on application.

S. O. STREBY,

Lock Box 77,

UPPER SANDUSKY, OHIO.

CYCAS REVOLUTA.

Orders booked now for fresh imported stems, fronds and roots cut off; best long-leaved variety. Delivery Feb. 1st to April. Cultivated Cycas always on hand, rooted and well established

Lil. Auratum, Spec. Rubrum and Album. Etc.
Iris Kæmpferi, in 100 choice varieties.
Japanese Maples, in best varieties.
Camellias, Pæonies, Tree Ferns, Raphis, Etc.
Araucaria excelsa, choice cultivated stock at lowest prices.

For general Japanese stock apply to

F. Gonzalez & Co.,

303 to 312 Wayne St., SAN FRANCISCO, CAL.

Order Now.

Ready by November 15th, fine lot of

Double White Primulas

In 4-inch pots; will bloom this season. For florists short of white carnations no better substitute can be grown.

CASH WITH ORDER.

PRICE PER DOZEN \$ 1.50
" PER HUNDRED 10.00
50 at hundred rates. Write for special prices in large quantities.

Address **WM. ROETHKE,**

1717 Gratiot Street, SAGINAW, W. S., MICH.

August Rölker & Sons

AUCTION ROOMS,

205 Greenwich Street, NEW YORK.

Sales every TUESDAY and FRIDAY during November and first half December.

Limits by mail receive prompt attention.

AUGUST RÖLKER, Auctioneer.

JAPANESE IRIS,

A splendid collection.

PHLOX,

In bright desirable colors.

PÆONIES,

Choicest varieties.

Send for Catalogue and special trade prices.

OASIS NURSERY CO.,

Thos. Griffin, Mgr. Westbury Station, L. I., N. Y.

A. Farleyense Fern

2-inch.....\$12.50 per 100

3-inch..... 17.00 per 100

4-inch..... 40.00 per 100

Largest stock in the west. Satisfaction guaranteed.

BAKER BROS.,

P. O. Box 72. KANSAS CITY, MO.

Send for a Copy OF OUR

TRADE DIRECTORY

AND REFERENCE BOOK.

PRICE \$2.00.

AMERICAN FLORIST CO.,

P. O. Drawer 164. CHICAGO, ILL.

WEIGHS BUT 4—STRONG AS 40 LBS.

"You Save Enough in Expressage to Pay their Cost in a Week."



A New Shipping Box for Cut Flowers,

"The Perfection."

This box is designed to fill the needs of the growers of cut flowers, who require something that will combine lightness with strength, and which can be furnished at a moderate price. The "Perfection" is made of well-seasoned poplar wood, 1/4 inch in thickness; brass corners; cleats on bottom outside; stays inside, at ends and in middle; each box fits perfectly on top of the other and adds to the strength; one lid is supplied to every three boxes.

They are heavily varnished with shellac outside and in, and absorb no moisture. Being manufactured for me in quantity, I am enabled to offer them to the trade at the following very reasonable prices:

No. 1. Size, 36x12x6 ins., in sets of 3, per set, \$2.40.

No. 2. Size, 30x12x6 ins., in sets of 3, per set, \$2.25.

The "Perfection" is already in use by many of the largest Philadelphia shippers, and is strongly recommended by them.

A box practical and durable, light and strong, and with all the other good features described above, which can be sold for the low price of 75 and 80 cents per box (in sets of 3), is certainly a boon to all flower growers. Inspection invited. Mail orders will receive prompt attention. Send for a sample set at once. If not pleased with them I will refund your money.

WHAT THEY SAY:

From C. E. MEEHAN:—"I consider the 'Perfection' Cut Flower Shipping Box which I am now using, the best that I have yet seen for carrying or shipping cut flowers.

It combines lightness with strength, and being well varnished the wood absorbs no water."

(Signed), CHARLES E. MEEHAN.

What MR. KIFT says:—"The 'Perfection, Cut Flower Shipping Box for those handling large quantities of flowers, is, I think, the best thing of its kind up to date. It has all the improvements suggested by the principal cut flower growers of Philadelphia, and is considered by them to be the best thing of the kind in the market."

(Signed), ROBERT KIFT.

From MR. JOSEPH HEACOCK:—"I have found these Boxes much superior to baskets for carrying roses and other cut flowers in. As they are quite shallow the flowers do not get bruised, and being well made are very durable, and being are made of poplar wood, are very light in weight."

(Signed), JOSEPH HEACOCK.

G. G. WATSON, WHOLESALE SEEDSMAN, Philadelphia, Pa.

10,000 CINERARIAS

Grown from seed that has no superior, composed of the most brilliant and dazzling colors in existence.

2 1/2-inch.....\$2.50 per 100

3-inch..... 4.00 per 100

CASH WITH ORDER.

S. WHITTON & SONS, Wholesale Florists,
9 and 11 Roberts Street, UTICA, N. Y.

ROOTED Verbena CUTTINGS

Ready for Immediate Shipment.

They are perfectly healthy, and the best named varieties.

Price, \$1.00 per 100; \$8.00 per 1000.

J. L. DILLON, Bloomsburg, Pa.

Denver.

The election created quite a little flurry in the flower world on Tuesday, the 6th inst. It having become known that the Republican candidate for Governor, Mr. McIntyre, had at some time expressed himself as to his favorite flower, naming the yellow chrysanthemum, on the afternoon of the election when it looked, without doubt, that he was elected, the many ardent admirers of the Republican party appeared arrayed with mammoth blooms of Golden Wedding, Kioto and other yellow varieties in their buttonholes. One enterprising florist immediately had printed a large number of small pieces of ribbon bearing the words "McIntyre Plumes," which he pinned on the coats of all purchasers and a rushing business until the "wee small hours of the morning" was the result of the timely bit.

W.

Of Interest to Nurserymen.

ST. PAUL, MINN., Oct. 14.—In the United States Circuit Court yesterday was heard an application for a writ of habeas corpus in the case of C. H. Schlechter, an employe of Bryant & Son, nurserymen of Princeton, Ill. Under one of the provisions of the Minnesota statutes a nurseryman selling goods in the state must file an affidavit and a bond. This law was not complied with by Bryant & Son or their agent Schlechter. He was arrested at Albert Lea, and as he would not pay the fine of \$50 was sentenced to the Freeborn county jail for thirty days. The attorneys for the petitioner proposed to test the constitutionality of the law. They maintain it is not a proper exercise of the police power of the state, and that it is in contravention of the law allowing freedom of inter-state commerce. Judge Sanborn discharged the prisoner, declaring the law to be unconstitutional for the reason it is an interference with inter-state commerce.—Chicago Tribune.

PANSIES.

The Jennings Strain of large flowering and fancy Pansies ready October 15th and on to May 1st.

THE JENNINGS STRAIN ALWAYS SATISFACTORY.

Price free by mail 60 cts. per 100; by express 1000, \$5.00; 5000, \$20; 10000, \$35. All colors mixed.

Pansy seed, finest mixed, 2500 seed \$1.
" " yellow black eye, 2500 seed \$1.

E. B. JENNINGS, Wholesale Pansy Grower,
Lock Box 254. SOUTHPORT, CONN.

PANSY SEED.

NEW CROP NOW READY. Very fine mixture of large flowering varieties and choice colors, especially selected for florists' use. 1 oz. \$3.00.

NEW GIANT PRIZE PANSY, finest strain in the market. 1 oz. \$5.00.

Low prices on Lillium Harrisii, Longiflorum, Roman Hyacinths, Lily of the Valley, etc.
Special low prices on Rustic Baskets.

HERRMANN'S SEED STORE,

413 EAST 34TH STREET,

Near Long Island Ferry, NEW YORK.

Pansy Plants.

EXTRA FINE STRAIN.

75 cents per hundred; \$5.00 per thousand.

ESSEX HEIGHTS FLORAL CO.,

..... BELLEVILLE, N. J.

Clematis Jackmanni.

One year, nice dormant stock, for potting up for Spring sales, \$2.00 per dozen; \$12.00 per 100. All home grown.

F. A. BALLER, Bloomington, Ill.

WE WISH TO RECOMMEND OUR MAGNIFICENT STOCK OF

ADIANTUM FARLEYENSE AND ADIANTUM CUNEATUM, in all sizes.

MIXED FERNS in 2-inch pots, and a fine lot of the most useful DRACAENAS for Decorative purposes. We are continually receiving this season very complimentary letters from our customers in reference to the plants sent out. One writes November 10th, 1894, "They are the finest Ferns I have ever received, and in quality far surpass those of the same variety at much higher prices purchased elsewhere. With the intention of buying my Ferns of you hereafter, I remain, very truly yours, K. W. L." Write for quotations.

PITCHER & MANDA, (Incorporated), SHORT HILLS, N. J.

SWEET PEAS FOR 1895. FLORISTS!

The Sweet Pea is my one Specialty. For three years I have been getting ready to supply high grade seed to those who want to grow the finest sorts for cut flowers and exhibition. Hereafter I expect that every packet I send out will be equal in quality to Eckford's sealed packets.

I do not care to sell in quantities above an ounce. I have a special grower working under my direction, and growing Eckford's latest novelties for me.

Last May I visited the California growers at their invitation, and expect to visit England next Summer to complete the literature of this flower that I am at work on.

Beside the 1895, 1894, 1893 and 1892 novelties I have a select stock of every variety known to the trade. SEND FOR MY FLORIST PRICE LIST.

W. T. HUTCHINS, Indian Orchard, Mass.

Mention American Florist.

CHAS. D. BALL, HOLMESBURG, PHILADELPHIA, PA. Palms, Etc.

A FULL STOCK IN THE BEST CONDITION POSSIBLE. STOUT, PERFECT PLANTS. ALL SIZES, UP TO ELEGANT SPECIMENS, AT REASONABLE PRICES. If you do not know the quality of my plants try some. There are none better. Price List on application. MENTION THIS PAPER.

ARECA LUTESCENS THE MOST GENERALLY USEFUL PALM

in commerce. We have them in all sizes, and Prices to suit. CERTIFICATE OF MERIT was awarded for this sterling Decorative Plant at the convention held at Atlantic City, August, 1894. Send for price list.

EDWIN LONSDALE, WYNDMOOR STATION, Phila. & Reading R. R. from 12th & Market Sts. PHILA.

Siebrecht & Wadley,

ROSE HILL NURSERIES,

NEW ROCHELLE, N. Y.



Palms,
ORCHIDS,
Roses,

and New Plants.

FRESH DRACAENA CANES NOW READY.

Mention American Florist.

ORCHIDS OUR SPECIALTY.

The Best and Largest Stock in the World. New & Rare Foliage & Flowering Plants. A grand selection for Stove, Greenhouse and Conservatory.

SANDER, St. Albans, England.

Our Mr. A. Dimmock will be pleased to interview buyers or reply to any communication addressed to him at 205 Greenwich St., New York City.

TOBACCO DUST.

Per 10 lbs 50c; 25 lbs \$1.00; 50 lbs \$1.50; 100 lbs \$2.50. Extra fine, per 100 lbs. \$5. Sample FREE.

Vaughan's Seed Store, Box 688, Chicago.

A BARGAIN.

15,000

LATANIA BORBONICA, from 2-inch

pots, 1 year old, fine plants,

\$4 per 100; \$35 per 1000, CASH.

Must sell. Cold weather no hindrance to shipping.

GEO. WITTBOLD,

1708 N. Halsted St., CHICAGO.

Mention American Florist.



Kills Mildew and

Fungus Growth.

What does?

GRAPE DUST.

Sold by Seedsmen.

IMPROVED 3-PIECE MAILING BOXES

In five sizes either in flat or made up. OUR NEW PAPER SHIPING BOXES In three sizes are well made and cheap. Any size box, label or stake made to order. Write for catalogue or estimates. WILLIAMS & SONS CO., Batavia, Ill.

How to Grow Cut Flowers.

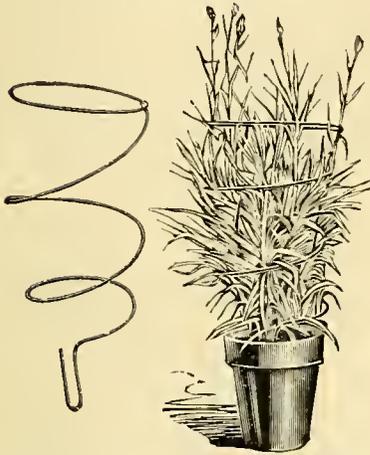
By M. A. HUNT.

A PRACTICAL TREATISE ON
THE CULTIVATION OF THE ROSE,
CARNATION, CHRYSANTHEMUM,
AND OTHER FLOWERING PLANTS FOR
.. CUT FLOWERS ..

Also, GREENHOUSE CONSTRUCTION, illustrated. Handsomely bound in Cloth, and sent to any address upon receipt of \$2.00.

ESTATE OF M. A. HUNT, Terre Haute, Ind.

PATENT PENDING.

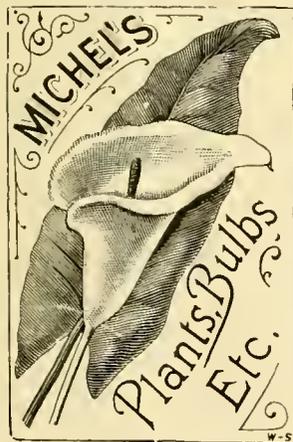


"ANOTHER ONE"

\$10.00 PER 1000.

SAMPLE, 10 CTS.

H. M. ALTICK, DAYTON, OHIO.



Write for Wholesale List.

MICHEL PLANT AND BULB CO.,
ST. LOUIS, MO.

Left Over BULBS FOR ALMOST NOTHING.

I bought too heavily this year, (especially o named Hyacinths of finest sorts and larges size) and will make up **Mammoth Collections** of many finest kinds for \$1.00, post paid. (Nothing less taken on this Special Offer.) If you order by Express, I will send an **Enormous Lot** for \$1.00. Orders received now and filled in rotation Nov. 15th. My selection, but you may say whether for in or outdoor planting. State if by Mail or Express. I am going to **Assonish** you, for I want to make customers. **BEN HAINS, New Albany, Ind.**

Please mention this paper.

W. R. Shelmire,
AVONDALE,
Chester Co., PA.
CARNATIONS
AND **COLEUS.**

NEW AND TESTED
CARNATIONS
OUR SPECIALTY.
FISHER & AIRD,
ELLIS, NORFOLK CO., MASS.

CARNATIONS
MRS. E. REYNOLDS \$8.00 per 100
BUTTERCUP 6.00
WILDER HINZE's and others. 5.00
CYCLAMEN, 3/4-inch pots. 6.00
GENISTAS, 5-in pots, nice stocky plants 12.00
SMILAX, 2 1/2-inch pots \$12.00 per 1000
Address **J. G. BURROW, Fishkill, N. Y.**

Two Year Old Roses.
FINE LARGE PLANTS. Per 100
BRIDE and MERMET. \$8.00
PERLE and SUNSET. 9.00
GONIER and SOUPERT. 8.00
LA FRANCE and WHITE LA FRANCE. 8.50
And all other standard varieties. Send list for prices. Also immense and fine line 2 1/2-inch pot Roses. Finest Rex Begonias, 3-in pots, \$5.00 per 100.
TERMS CASH WITH ORDER.

THE NATIONAL PLANT CO., Dayton, O.

5,000 General Jacqueminot
ROSE PLANTS,
on their own roots, well branched, 2 1/2 to 3 1/2 feet high **\$10.00 per 100**
Sample of eight for \$1.00.

JORDAN FLORAL CO.,
706 Olive Street, ST. LOUIS, MO.

ROSES.
Clean, healthy stock.
MERMETS, BRIDES, MME. WATTEVILLE,
Strong plants, from 3-inch pots, \$5 per 100.
BRIDESMAIDS, METEORS,
Strong plants. 3-inch pots, \$6 per 100.
WOOD BROTHERS, Fishkill, N. Y.



TRY **DREER'S**
GARDEN SEEDS,
Plants, Bulbs & Requisites.
They are the best at the lowest prices. Trade List issued quarterly, mailed free to the trade only.
HENRY A. DREER,
Philadelphia, Pa.

Always mention the American Florist when writing to advertisers.

GOOD FIELD PLANTS

— OF —

Sweetbrier

Carnation.

\$15.00 PER 100.

Other varieties on application.

EDW. SWAYNE,
KENNETT SQUARE, PA.

CARNATIONS

Strong plants in cold-frames.

Blanche, Richmond, Dawn, Mrs. Hitt, Mrs. Reynolds, Lamborn, Garfield, Golden Gate, White Wings, Purdue, Spartan, Attraction, Nellie Lewis, White Dove, Louise Porsch, \$1.00 per 100.

MARIE LOUISE VIOLETS, from 2-inch pots, \$2.50 per 100; \$20.00 per 1000.

TERMS CASH WITH ORDER.

JOSEPH HEINL, Jacksonville, Ill.

New Carnations our Specialty

FRED. DORNER & SON,
FLORISTS,

LA FAYETTE, : : INDIANA.

CARNATIONS

ROOTED CUTTINGS
now ready, of desirable kinds for **EARLY**
SUMMER BLOOMING.

Seedlings, Novelties and Standard sorts in season.
C. J. PENNOCK,
The Pines. **KENNETT SQUARE, Chester Co., PA.**

THE COTTAGE GARDENS,

Queens, Long Island, N. Y.

WHOLESALE CARNATIONS.

CARNATIONS.

Rooted Cuttings, Young Plants, Field-Grown Plants in season. Send for prices.

Geo. Hancock & Son, Grand Haven, Mich.

CARNATIONS.

AMERICAN BEAUTY, strong plants.

A. S. MacBEAN, Lakewood, N. J.

Chicago.

The "mums" have seen their best days for this season; many of the best benches are already cut out. Queens are nearly gone, and so are the best of Ivory. Mrs. Bullock, or Domination as we name it here, is still with us; Mrs. Jerome Jones also is still good, but as a commercial flower has one weak point, like the Queen, it drops quickly. Lincoln and Harry Widener are the best in yellow. Widener though is not up to former years; on the average there are a great many imperfect blooms in the lots offered. In pink we still have some good Balsley; Vivian-Morel is pretty well cut out. The demand for "mums" is rapidly falling off, and to judge by present appearances the late varieties will find but little demand.

The very bad weather of last week and the early part of this has shortened the supply of roses, although there is an ample supply of most sorts for the needs of the trade. First-class American Beauties are quite scarce. The smaller teas have not recovered their lost ground yet as regards prices. For small lots of selected stock such sorts as Meteor, Test-tout, Bridesmaid, Brides, etc., 3 is realized, and an occasional lot may bring a point above that, but the average doesn't exceed 2. Good carnations are fairly active, with \$1.50 per hundred for the best, fair average quality \$1. Violets have shortened up again, and prices for good bloom advanced to \$1.50. Valley continues in excellent demand at 4. Romans have made their appearance, but there is no demand for them as yet. Some really fine mignonette (Machet) is noted; this is held at 3, but seems to move rather slowly.

In retail circles there is something doing in decorations for receptions, etc., but the transient business is reported as extremely quiet.

Among recent visitors were C. B. Whittall and wife, Milwaukee; D. B. Long, Buffalo; W. A. Harkett, Dubuque, Ia.

Bids and plans for the new conservatory to be built in Jackson Park were submitted to the South Park Commissioners November 14. The bids ranged from \$125,000 to \$78,000. The matter was laid over till next meeting.

The Chrysanthemum.

Willie boys are again hiding behind chrysanthemums.—Pittsburg Chronicle-Telegraph.

We have reached that season of the year when the callow youth delights to fasten himself to the rear end of a big chrysanthemum.—Washington Post.

In Pittsburg one of the most highly esteemed compliments that can be paid is to name a chrysanthemum after a citizen. Thus has the exaggerated fennel superseded the laurel.—Washington Star.

ST. THOMAS, ONT.—A very attractive chrysanthemum display was given by Hugh McLean at his greenhouses here, the show opening November 3. The houses were effectively arranged and decorated with Chinese lanterns. Each lady visitor was presented with a flower on leaving. Fine specimen plants were displayed, as well as cut flowers, and the show was greatly admired. There is no doubt it will be a telling advertisement to Mr. McLean, as well as the trade generally.

NEWPORT, R. I.—Mr. H. J. Hass has completed the improvements in his Thames street store, and it is now one of the most attractive in the city. A new plate glass front affords facilities for an elegant window display.

PARTIAL LIST OF STOCK PLANTS OF CHRYSANTHEMUMS.

	EACH.	PER DOZ.
Mrs. E. G. Hill, best early pink.....	20c.	\$2.00
Yellow Queen, best early yellow.....	30c.	3.00
Mrs. Craige Lippincott, medium early yellow, extra fine.....	20c.	2.00
E. Dailledouze, mid-season to late, best yellow up to date.....	60c.	6.00
Mutual Friend, pure white, graceful in form, a general favorite.....	50c.	5.00
Minerva, a very fine medium early yellow.....	5 c.	5.00
Marie Louise, white, early and large.....	50c.	5.00
Mrs. J. Geo. IIs, pure white, very large, late.....	60c.	6.00
Major Bonaffon, incurved, beautiful in form, "Yellow Ivory".....	50c.	5.00
Mayflower, very large, creamy white, beautiful in form.....	50c.	5.00
H. L. Sunderbruch, early yellow, extra fine.....	50c.	5.00
Erminilda, one of the very best mid-season pinks. Took first premium for vase of 50 over all other pinks, at Philadelphia, 1894.....		\$25.00 per 100
And many others.		

EDWIN LONSDALE, Chestnut Hill, Philadelphia.

Chrysanthemum Stock Plants.

Extra strong, field-grown clumps, in perfect health—not bench-grown stock exhausted by over feeding which seldom give satisfaction, as they produce weak, sickly plants.

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Get your flowers direct from the grower. Can furnish fine blooms from \$5.00 to \$12.00 per 100.
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MISTLETOE—Per box 20 lbs., \$5.00.

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CHRYSANTHEMUM
"PHILADELPHIA."

We have made arrangements with Mr. Hugh Graham, the introducer, for our supply of the above. Orders booked now and filled in rotation March 1st, 1895.

PRICE:

50 cts. each; \$6 per doz.; \$35 per 100.

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The plants are dug from bench after having bloomed. Strong plants. Cash with order.

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The finest early variety ever introduced. (See this paper Oct. 13, page 245.)

MAYFLOWER, white, extra fine mid-season. **MINERVA**, clear yellow, extra fine mid-season.

These two last named are now selling at a premium over all others in New York market.

Good Stock Plants of the above, 50 Cents each.

10 per cent. discount for cash for all orders over \$2.
All the best varieties at reasonable prices.

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120 VARIETIES. 120

Stock Plants of Chrysanthemums.

Send your list of wants for prices.

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Prize winners at the Boston Chrysanthemum Show, 1894.

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Inter Ocean, Mrs. E. G. Hill,
The Queen, Mrs. J. George IIs,
Major Bonnaffon, Vivand-Morel,
Mutual Friend, H. L. Sunderbruch,
Beau Ideal, Maud Dean,
Mrs. T. H. Spaulding.

Strong plants by mail, 20 cents each, or the collection of 14 varieties, \$2.00 by mail. Ivory, \$5.00 per 100 postpaid. All warranted true to name. Cash with orders.

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Mention American Florist.

Stock Plants of "Mums."

Each Dozen
IVORY..... 15c. \$1.50
KIOTO..... 10c. 1.00
FREEMAN..... 10c. 1.00
Orders booked now for rooted cuttings of Carnations.

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CHRYSANTHEMUMS

Stock plants, true to name, from bench or pots, flowers cut.

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ROOTED CUTTINGS of first four, \$3.00 per 100; of others, \$2.50.

Rooted Cuttings of Challenge, Marie Louise, Eugene Dailedouze, Inter Ocean, Mrs. Craige Lippincott, \$5.00 per 100. No order for less than \$2.00 desired. Cash with order unless for large lots from known purchasers.

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HERMANN RÖLKER,
218 Fulton Street, NEW YORK

Toronto.

Twenty-two gardeners and florists from this city visited the Hamilton chrysanthemum show last week. Some took exhibits with them and others went just to see the show and have a good time generally, and I did not see one exhibitor or otherwise in the course of the day but what appeared to be having a most excellent time. The Hamilton boys treated us right royally and made everything lovely. Of the show I do not intend to say much, no doubt your correspondent will give a full description. There was a fine show of cut bloom but plants were scarce, not but what there are plenty of plants in Hamilton that might have been shown, but many of the florists there don't seem to realize the importance of these shows or the good they do or else one is afraid of being beaten by the other, at any rate they kept their plants at home. But those who did show, Brown Bros. and F. G. Foster, deserve all the more credit and will no doubt reap the benefits in an increased trade. The other fellows will realize in due season that in these times it is absolutely necessary to keep in the current or they will be left high and dry. Brown Bros. had some really magnificent flowers, they will no doubt be heard from at the Toronto show. Those from Toronto who exhibited were Messrs. Gilchrist, Dunlop, Tidy and Dale. Wm. Scott, represented by E. Mepsted, also brought over some of his "daisies." Mr. S. Aylett, gardener to Senator Sandford, put up a very fine group of plants. Now if the Hamilton boys will only come to Toronto we shall not only be able to show them a first-class chrysanthemum exhibition but will also endeavor to make some return for the kindness and hospitality experienced at their hands.

Is there another white chrysanthemum that can beat The Queen as an exhibition flower? They say that Niveus takes better with the ladies and sells better. Both are exquisite and both were shown to perfection at Hamilton.

Snow has fallen and is still on the ground, the thermometer has been down to 20°, which has of course put a stop to all outside vegetation.

Some very fine chrysanthemum blooms are to be seen in the down town stores now and there appears to be a good demand for them. Are they not fine things for decorating a store window? Dunlop had a little show of his own in his King street store last week.

Trade has picked up considerably this last week, in consequence of which the boys are feeling better. E.

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New Catalogue (No. 4) containing over 1,000 Ornamental Cuts for Florist's use, such as envelopes, letter heads, bill-heads, cards, advers., floral designs, etc., at from 30c. and upwards. Price of Catalogue 25 cts. (deducted from \$1 order).

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GLASS HEADS, IN BLACK, WHITE AND VIOLET.
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CANNA "KOENIGIN CHARLOTTE." The finest variety gained up to this date. Musa-like foliage, enormous flower spikes, blooms velvety green-ada blood red, regularly bordered three lines broad, with the brightest canary yellow. **FINEST WINTER BLOOMER.**



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Cape Flowers, Grasses and Plumes, DYED ALL COLORS.

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Made up, nailed or lock cornered; or material cut to size ready to be nailed up at destination.



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When asking prices state sizes of boxes or stakes and quantity wanted.

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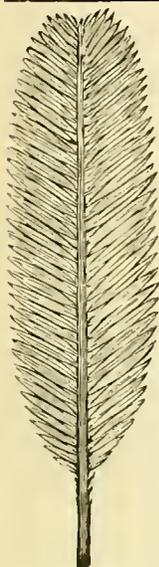
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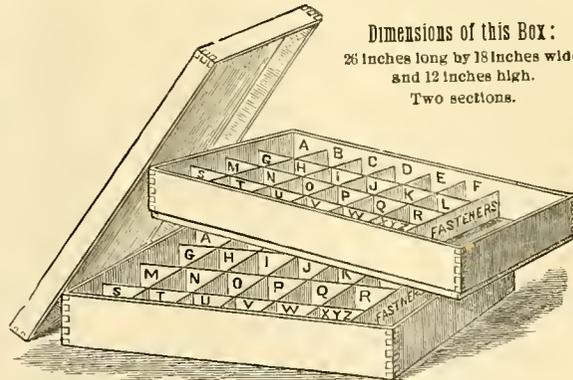
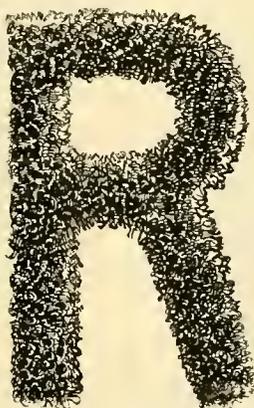
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BAY SHORE, N. Y.—H. L. Patthey, 2 houses 72x14 each.

AT THE CONVENTION: It's a wise man that knows his own stomach.

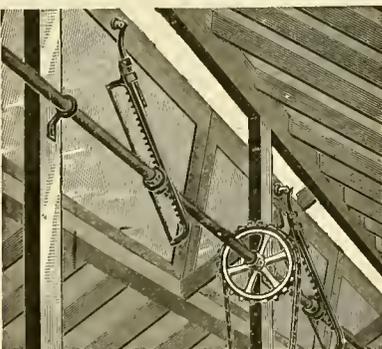
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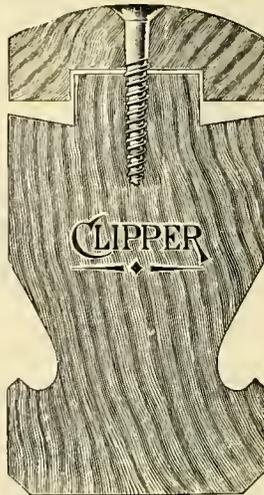
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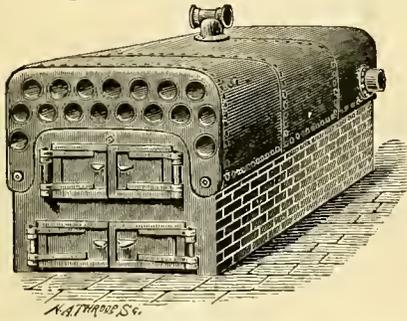
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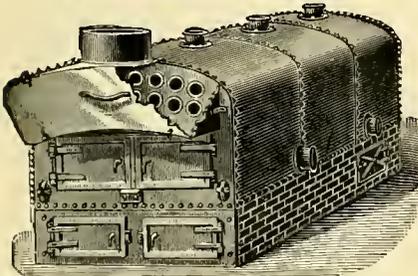
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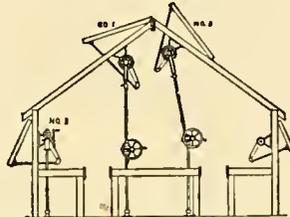
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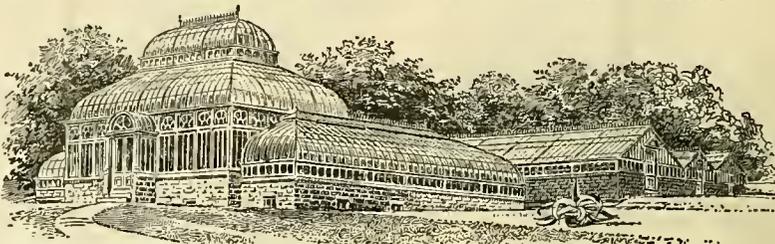
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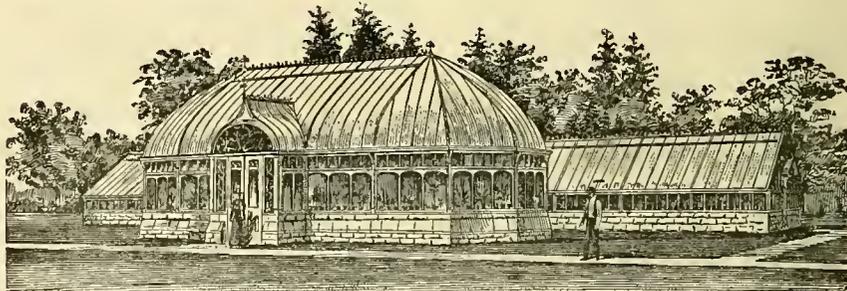
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SALEM, MASS.—George Pettingill, a long time florist of Salem, died of heart disease on November 7, aged 70 years. He was highly esteemed as a citizen and neighbor.

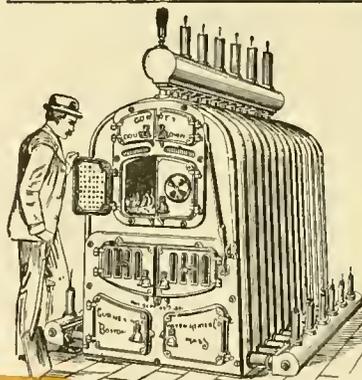
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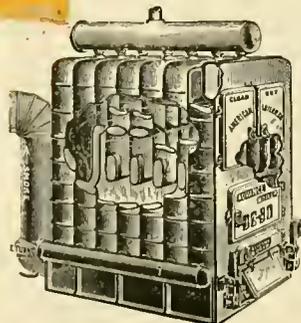
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Vol. X.

CHICAGO AND NEW YORK, NOVEMBER 24, 1894.

No. 338

THE AMERICAN FLORIST

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Eastern Office: 67 Bromfield St., Boston.

This paper is a member of the Associated Trade Press and the Chicago Trade Press Association.

SOCIETY OF AMERICAN FLORISTS.

J. T. ANTHONY, Chicago, president; ROBERT KIFT, Philadelphia, vice-president; WM. J. STEWART, 67 Bromfield St., Boston, Mass., secretary.

The new officers to be installed Jan. 1, 1895, are: EDWIN LONSDALE, Chestnut Hill, Philadelphia, president; E. C. REINEMAN, Allegheny City, Pa., vice-president; WM. J. STEWART, Boston, secretary; H. B. BEATTY, Oil City, Pa., treasurer. The 11th annual meeting will be held at Pittsburg, Pa., August, 1895.

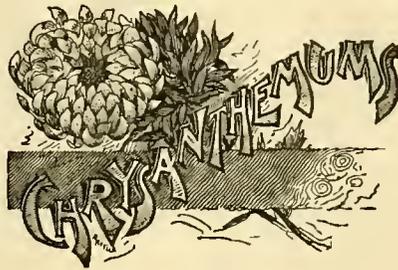
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OAKDALE, MASS.—Messrs. Alterman & Shepard have leased the greenhouse of George Smith.

MARBLEHEAD, MASS.—Mr. Irving Hayden has added another plant house to his establishment on Atlantic avenue.

ORANGE, N. J.—A number of florists in the Oranges have organized as the New Jersey Horticultural Society. These gentlemen have been elected officers: Robert M. Grey, president; George Smith, vice-president; Peter Duff, secretary; and George Van Qualen, treasurer.



THE EXHIBITIONS.

Montreal.

The annual chrysanthemum show of the Montreal Gardeners' and Florists' Club opened November 13 in the Old Erskine Church. This building, though called "old," is not by any means ancient, but is in every respect a modern church building. The light through the stained glass windows during the dark weather which we have had for some days was not as good as one would like, but for that and a few other minor defects it made a very good building for a flower show, and when the exhibits were all arranged a prettier sight could not be easily imagined. The pillars and front of galleries were handsomely decorated with garlands and festoons of laurel and princess pine, and from the roof trusses were hung a number of small bannerets. The cut blooms were arranged on a table up the center, and another across the chancel end. The single specimens, threes and sixes, were arranged in a row at each side of center table. Around the gallery pillars were stood the dozens in square blocks, with the tables with dinner decoration at the chancel end. Along the walls at each side were the mantels and banks. A large space under the gallery at door was filled with specimen palms, tree ferns, etc. A table at the end of the cut flower table was filled with Pitcher & Manda's exhibit of orchids and new "mums."

It being freezing hard all day on Monday only a few plants were brought in, and those that did come were injured less or more; one lot of large specimens was frozen stiff, but they came to pretty well before Tuesday afternoon, although they had a rather sad looking appearance on Tuesday morning. Fortunately Tuesday morning was much warmer, and about ten o'clock it was not freezing, so those living near at hand brought their plants exposed, but by far the greater bulk came wrapped up in cottonwool and tissue paper.

The competition this year in every class was keener than ever before, the quality of exhibits being a great advance on any former year. In the 24 bloom section the competition was particularly close between McHugh and Coupland, Messrs.

Campbell and Robinson being only very little behind.

There were three entries in the class calling for 12 specimen plants; Mr. McHugh's, which took first prize, were much the smallest plants of the three, but they were all as near perfection as it is possible to get them, as to shape, quantity and quality of bloom. Mr. Coupland's set were large plants, exceedingly well grown, with an abundance of bloom, but did not come up to the first lot in compactness or size of bloom. A plant of Ivory in Mr. McHugh's lot was by long odds the finest specimen ever exhibited in this city.

For the 12 plants in 6-inch pots there were three entries, but Mr. McHugh came in an easy winner, also in the six plants in 6-inch pots, and in the three plants in 6-inch pots the same gentleman won easily. For 12 plants in 5-inch pots, single bloom, Coupland was first. In the 50-foot banks there were four entries, Mr. Coupland taking first place with one of the finest collections ever brought together in this city. There were four groups of 25 feet, all of which were very tastefully arranged; C. A. Smith first. In groups of chrysanthemums and foliage plants there were five entries; C. A. Smith first. The groups of stove and greenhouse plants were missing this year, the severe weather preceding the show making it unsafe to transport tender stock. In the mautel decorating there were only two entries, Mr. Jas. Bennett being first with a very tasteful display; Wilshire Bros. second.

In table decorating Mr. Colin Campbell and Wilshire Bros. divided the honors. The tables were for 8 persons, Mr. Campbell's decoration consisting of a centerpiece of Meteor and Bride roses with lily of the valley and adiantum, with a small cocus in the center, supported by four small glasses containing each one Meteor and one Bride rose, a couple of sprays of valley and a spray of Adiantum cuneatum standing on a mat of Asparagus plumosus nanus; the favors were Meteor and Bride roses and lily of the valley, and the boutonnieres Meteor roses and a spray of valley. On Messrs. Wilshire's table was a bowl of about 50 Perle roses for a centre supported by two flat baskets of Meteor roses and adiantum; the favors were Meteor roses.

For the best vase of chrysanthemum blooms there were only three entries, P. McKenna & Son getting first with 36 splendid blooms of about six varieties; Colin Campbell second, and George Robinson third. Messrs. Pitcher & Manda received a certificate for their new chrysanthemum "Canada"; it is a medium sized flower of a buff shade, quite distinct, but its good points require further development before it is worthy of its name. In carnations Puritan was first for white, with Haettel second; Daybreak for light pink, and Wm. Scott for dark pink. Portia is

the best scarlet. Carnation prizes went to P. McKenna & Son, J. Bennett and C. Campbell. The two last named competitors received all the rose premiums. Palm and orchid prizes went to Fred Bennett and W. J. Wilshire. BEAVER.

Providence, R. I.

The annual chrysanthemum show of the Rhode Island Horticultural Society eclipsed all its predecessors in the quantity and perfection of exhibits and in attendance of visitors. Infantry Hall, where the exhibition was held, is well suited for the purpose and the exhibits were well displayed. The plants while not enormously large were exceedingly well grown as a rule, being well proportioned and well furnished with flowers and foliage. The cut blooms were of splendid quality, far surpassing those seen at any previous exhibition; the various types of reflexed and incurved were well represented and what is equally important they were well and tastefully staged. The weather was unfavorable, but notwithstanding this drawback the attendance was very large and indicated that the Providence public is by no means tired of chrysanthemum shows. On Friday evening Governor Brown and members of his staff honored the exhibition by their presence, and the number in attendance on Saturday, the closing evening, was estimated at over one thousand. There was a concert of vocal and instrumental music each evening. The judges were A. H. Fewkes, E. W. Wood and M. S. Cheesman.

On specimen plants Mrs. T. P. I. Goddard led in all the classes. For best single specimen of any new variety she showed a pretty plant of James Comley. On plants grown to single stem and bloom Mrs. T. P. Shepard and F. A. Fairbrother were in the lead. The special prizes for collections of plants not less than forty pots open to commercial florists only brought out some brilliant groups of moderate sized evenly grown specimens for which first and third premiums were awarded to F. A. Fairbrother and second to John E. Pressler. Mr. Fairbrother is an expert in growing neat market size plants as was shown by these groups as well as a comprehensive collection on the stage. E. Carl also made a creditable showing of well grown small plants. There were some nice plants also shown in the amateur classes, much better in fact than is generally seen in this department.

The leading attraction in the cut flower section was the display of vases of ten blooms each in competition for the three silver cups. Here Farquhar Macrae sailed in under full head and captured everything. His blooms of Mutual Friend, Pres. W. R. Smith, J. H. Cliffe, Pitcher & Manda, Minnie Wanamaker, Mrs. Robt. Craig and Ada Spaulding were exceedingly well done and the premiums were well deserved. In the competition for best single flower Mrs. T. P. I. Goddard was first with a splendid bloom of Roslyn and F. Macrae second with The Queen. On fifty cut blooms, all classes, F. Macrae was again ahead closely followed by R. H. I. Goddard, both exhibits being of the highest grade. Mrs. T. P. I. Goddard led in twelve reflexed, twelve incurved and six reflexed, all the blooms shown being noticeable for their uniformity of size and perfect form. John Patterson and Mrs. T. P. Shepard also won honors in these classes. From Pitcher & Manda came an interesting collection of blooms comprising many new introductions.

There were some excellent groups of crotons, palms and other foliage plants from R. H. I. Goddard, Mrs. T. P. I. Goddard and T. O'Connor which added much to the appearance of the show as a whole. N. D. Pierce Jr., who had an attractive booth in the center of the hall for the sale of cut flowers, showed a collection of fifty varieties of carnations of finest quality. From E. Carl and H. E. Chitty also came some good carnations. A new feature was the exhibition of banquet tables shown by two leading caterers. These were fully furnished with china and silverware and decorated one with pink and the other with yellow chrysanthemums. Edward J. Johnston showed a handsome tripod filled with chrysanthemums and a similar arrangement with Daybreak carnations. The quinces, apples and pears in the fruit department were of unusual excellence.

Echoes of the Philadelphia Show.

The vases of fifty blooms of one variety were certainly the most effective and beautiful of all the exhibits, these graceful masses of color attracted more attention from the visitors than any of the other exhibits, without them the show would not have been the success that it was.

Stakes to support cut blooms were not allowed, this is a mistake except in the case of seedlings, which are being judged on the strength of stem, along with size, color, etc. In all other classes exhibitors should be allowed to use what supports they see fit, it adds much to the life of many fine flowers to be supported and when placed on exhibition everything should be done to make the displays as attractive as possible. In most exhibition halls flowers that could be kept elsewhere for a week or more in good condition are often unfit to be seen the second day. In many cases the heavy head of bloom carries a comparatively stout stem down while the flower is yet fresh, this could be avoided by the addition of a light and almost invisible stake. Very large vases of fifty or more should be tied up in some way, as the stems on the flowers are generally the extreme length and it is difficult to make them stay where they are placed without artificial support.

There was a very good supply of roses for all classes of blooms, thanks to the energy of Mr. John Curwen Jr., who as chief in charge of this department was the right man in the right place. One important committee that should be on duty all the time might be called the committee on maintenance, it should be their duty to be about all the time, sprinkler in hand to see that the foliage of the flower stems was always damp, particularly should this be attended to at the close each evening; they should also see to the ventilation so as to keep the temperature just right. Every morning wilted flowers, if any, should be removed and if necessary the vases spread out to make up the space. We speak of this because the necessity of some such committee was evident at the show just closed and other previous exhibitions.

The committee of arrangements deserves a great deal of credit for the way they worked to get things straightened out on Tuesday; it was hard work and plenty of it, but they proved equal to the occasion.

Thos. Myers' plant stands so kindly loaned by him to the society were a great help, and many an exhibitor was enabled with these to give his display an artistic touch and to raise it up as it were in the

vision of the visitors. These stands are made of two cast iron discs, the one at the bottom being half as large again as the upper one. These discs are screwed on to either end of a piece of pipe, making a strong and durable stand, the whole is then japanned which gives it a neat finish and makes it proof against rust.

Henry F. Michell's display of bulbs, seeds, greenhouse appliances and conservatory requisites was very complete and attracted considerable attention.

Taking it all in all the Academy was a good place to hold the exhibition, the ample seating capacity where the visitors could retire and view the show from above and listen to the strains of the music was very much appreciated. The great drawback was the artificial light, the gas burning all day and evening was not conducive to a pure atmosphere. The effect of the light on some varieties, notably Philadelphia, was detrimental as their colors are not brought out as in daylight.

The displays of cut roses were fine, but not large enough, the premiums offered should have brought out more competitors. Among the new roses Belle Siebrecht and Mrs. Pierpont Morgan looked promising, as did also Mrs. Whitney. Meteor was seen very fine, this rose is becoming a great favorite here, while the Bennett of which so much was expected is seen no more.

Another person who is wanted at an exhibition of this magnitude is an advertising agent, the show was well taken care of by the city press, but a live man who makes advertising a specialty would have been worth considerable to the society.

Ermenilda is a fine pink; it has been out for several seasons, two at least. Edwin Lonsdale showed a vase of fifty fine flowers which attracted a great deal of attention. Some one asked him when he was going to send it out.

Philadelphia was a good thing for Mr. Graham, and doubly so for the show, as many came attracted by the newspaper articles on this variety. As the returns came in from the various shows the telegrams were pinned to a long stake attached to the vase and made interesting reading. A cablegram announcing its winning a silver gilt medal in London and another from Williams asking price for whole stock was very conclusive statements as to the opinion of chrysanthemum experts on the other side.

The little Japanese box garden in the lobby was much admired and looked as if it was a small section brought from the Mikado's garden.

Of course the inevitable wet day had to be, but for this the society would have come out about even, as it is there will be a small deficiency. K.

Frederick, Md.

The fourth annual chrysanthemum show of the Frederick Co. Floricultural Society was held at Frederick City November 7, 8 and 9. Each succeeding year the shows of this society have surpassed those of the previous ones. Starting in a humble way in a small store room four years ago, the shows have grown to such large proportions that the Rifles Armory, one of the largest halls in the state, could scarcely accommodate the plants brought this season for exhibition. The lobby of the armory was transformed into a bower of oak leaves, which was in perfect keeping with the autumnal season. Inside the entire armory was encircled with cedar trees, which made an



A GLIMPSE OF THE BALTIMORE SHOW.

excellent background for the flowers. The large tables for cut blooms were nicely arranged through the centre, interspersed with banks of palms and other foliage and decorative plants, while the entire south end was taken up with the exhibit of Charles Hermann, who made a splendid exhibit of foliage plants and chrysanthemums; numberless tiny colored electric lights were scattered through this exhibit that flashed forth now and then, disappearing at times, soon to appear again in all their beauty. It had a very pleasing effect, and was much admired. Hundreds of Japanese lanterns of fantastic shapes, parasols, banners, scrolls, etc., with hundreds of yards of hunting were artistically used in the decorations overhead, all brilliantly lighted with large arc electric lights; it made a perfect fairy-like scene, with the colors of the chrysanthemums beautifully blending with the dark green background of cedar trees, and the attractions were heightened by excellent music.

One of the leading features of the show was the exhibit of amateurs; nothing like it can be seen at any other show in the country. In many instances the specimen plants of the amateurs were as fine as those of the professionals, while their cut blooms were simply magnificent, many measuring 9, 10 and 11 inches. A premium was offered to amateurs for best display of blooms grown in the open ground, to stimulate outdoor culture, and the result was that some of the finest blooms seen at the show were those raised in the open ground, and just before the show the open yards of the members were beautiful to behold with their wealth of noble blooms in all shades. The Frederick amateurs claim they are

way ahead of all others in the cultivation of the queen of autumn.

The display of plants in all classes was better than last season. The display of D. Groff in the professional class was the finest ever seen in the state; his group of fifty specimen plants was hard to beat anywhere; he was easily a winner in this class for first premium. He also took first premium over all for single plant with a grand plant of Wm. H. Lincoln loaded with fine large blooms. In the standard class he received first premium for Princess of Chrysanthemums trained to an umbrella shape, also first premium for plant in smallest pot for a Mrs. Craige Lippincott with a mammoth bloom in a 3-inch pot. His group of 60 single stems made a fine showing. For single plant, one stem, one bloom, H. Trail received first premium for Mme. Marie Hoste.

The display of cut blooms was larger and the quality finer than ever before. In the classes open to all Henry Trail was awarded first premium for general display, among which were all the new varieties of recent introduction along with some of the older favorites. D. Groff's display was also very fine, and he was awarded second premium, and here also were seen beautiful blooms of the new varieties as well as some fine seedlings of his own raising. First premium for whites was given H. Trail for a vase of magnificent Queens. Yellows—first premium to D. Groff for a vase of H. L. Sunderbruch, which were truly grand, the flowers measuring 12 inches in diameter. Pink—first premium H. Trail for vase of Vivand-Morel; any other color, H. Trail for vase of Eugene Dailedouze.

The only seedlings of merit were those

of D. Groff, and he was awarded first and second premiums for two superb varieties; one of them is a surpassingly fine deep large bloom beautifully incurved in form, full to centre, of a lovely waxy pink shade. A leading florist of Philadelphia to whom some of the blooms were sent says it is equal in size and merit to the sensation of the day, Philadelphia; it has been named in honor of this city, Frederick. The other is a large full bloom, style of Nivcus, very early, of a delicate flesh tint, a lovely flower named in honor of the secretary, C. Edwin Kemp.

H. Trail took first premium for display of roses, also first for vase of 50 blooms, cut carnations.

In the amateur class the specimen plants were fully up to last season, while the cut blooms were finer. For best display of plants premiums were awarded to John C. Hardt, J. R. Marken and Chas. Kussmaul, in the order named. For cut blooms awards were made to H. C. Keefer, C. E. Kemp, Rhodes Kemp and L. E. Mulliaix. H. C. Keefer and John Hardt received prizes for vases of cut bloom.

In a class open to all, Chas. Herman received first, and H. Trail second for cut flower design. In amateurs' class C. E. Kemp received first for a dainty bridal basket.

A handsome souvenir book of twenty-eight pages, full of information for the amateur, was freely distributed and much sought after. The judges were C. F. Hale, W. H. King and W. Gude, all of Washington, D. C.; they were astonished at the magnitude of the show for a city of only ten thousand inhabitants. The

president, Dr. Wm. H. Balzell, entertained the judges and other officers of the show at an oyster supper at one of the leading restaurants. Many expressions of regret were heard when the show closed; everybody was chrysanthemum crazy. The florists say they never had such sales of cut blooms. The show was a success financially and otherwise.

C. E. KEMP.

New Bedford, Mass.

Although New Bedford is seldom heard from in a floral way much beyond its borders, it nevertheless possesses some very enthusiastic chrysanthemum growers, who are able to back their enthusiasm by expert knowledge in the cultivation of their favorite flower. The display of chrysanthemums at the annual show of the New Bedford Gardeners' and Florists' Club November 12 to 14 amply justifies these remarks, and places New Bedford in the front rank of cities holding chrysanthemum shows in this state. The old City Hall was filled to repletion with the exhibits and if it had not been for the severe storm a few days previous to the show there would not have been room for all the plants that would have been brought in.

The club has provided a quite liberal schedule and the prizes were freely competed for. One feature which has created much interest in these shows is the offering of a triennial prize by the club in the form of a beautiful sterling silver vase, which must be won two years out of three by any one competitor to become his permanent property. The prize was for six distinct varieties of chrysanthemums in pots and was won this year by Mr. John P. Rooney, gardener for Mr. Frederick Grinnell. As he was the successful competitor last year the vase now becomes his property. He had six exceedingly fine plants which would have made their mark at any exhibition in the country. There were two other competitors in this class, Mr. John Driscoll, gardener to Mrs. Wm. J. Rotch, and Peter C. Keith, gardener for Miss Julia Delano. Mr. Driscoll's plants were but a few points behind those of Mr. Rooney, and one, a Wm. H. Lincoln, was the finest plant in the hall. Mr. Keith's plants were grown in the formal English style and were very pretty, but were much less effective than the others.

Another class which brought out some fine plants was one for twelve plants of distinct varieties and was competed for by Mr. Rooney and Mr. Driscoll, the former receiving the first prize and the latter the second. For six Japanese Frederick Puckering was first, and for three Japanese Dennis Shea was first, James Garthley second and William Keith third. For one Japanese Dennis Shea was first and John Driscoll second. For one Chinese Dennis Shea was the only competitor.

For one specimen of any variety there were four entries and the competition was very close, the plants being magnificent specimens. The first was taken by John Driscoll with a superb plant of Wm. H. Lincoln, and the second by James Garthley, gardener for H. H. Rogers of Fairhaven, with a scarcely inferior plant of the new variety Major Bonnaillon, this was a very beautiful plant and showed what a valuable variety this is for growing in bush form. Dennis Shea, gardener for Horatio Hathaway, was third with a very large plant of Winifred Marshall. Fred Puckering, John Driscoll and Wm. Keith entered good standard plants and

received prizes in the order named. The class for twelve varieties grown to a single stem, one flower to a plant, was very interesting and was competed for by Peter Murray, gardener to Mr. W. P. Winsor of Fairhaven, James Garthley and Wm. Keith, and prizes were awarded in the order mentioned. These were a remarkably well grown lot of plants and included many rare varieties.

The center of the hall was filled with groups of plants arranged for effect and added much to the attractiveness of the exhibition. With a little more space these groups would be greatly improved with an edging of some low growing plants, either foliage plants or small chrysanthemums. Fred Puckering was first here, James Garthley second and Wm. Keith third. There were also prizes for pot grown carnations, violets and tea roses. Very creditable entries were made in each class. There were three entries in the class for group of orchids arranged for effect, Peter Murray taking first prize, Peter C. Keith second and Chas. J. Wood third. Their exhibits filled nearly the entire front of the stage and were much admired.

The cut flower displays were far ahead of anything before attempted here, and some very remarkable blooms were staged. Peter Murray captured all the first prizes on flowers, the other prizes being divided between James Garthley, who was a very close competitor with Mr. Murray, Wm. Keith, Peter C. Keith, John Driscoll, Josiah Eaton Jr. and Chas. J. Wood. The large vases of cut blooms containing not less than forty flowers each attracted much attention and were used to decorate the approaches to the stage. In the classes for ten blooms of a color Niveus, Mrs. Jerome Jones, O. W. Holmes, Golden Wedding, Vivian-Morel and Judge Benedict were well shown.

Tea roses were shown by Peter Murray, James Garthley and Chas. J. Wood, and carnations by John Bros. and Peter C. Keith. R. H. Woodhouse made a nice display of miscellaneous plants which included many skillfully grown specimens.

When it is understood that all the chrysanthemum plants exhibited were grown to one stem the exhibition of plants must be considered a most remarkable one, for many of them measured from five to seven feet in diameter and in many of them the foliage was nearly perfect.

The appearance of the exhibition would have been much improved by the introduction of a few tall palms or evergreens, but with the limited space at the disposal of the exhibitors it may not have been possible to use them. A. H. F.

Milwaukee, Wis.

The Milwaukee show was gratifying to all who care to see good "mums," roses and carnations. Taking everything into consideration the local growers show an improvement in these flowers. The show, as managed by the Florists' Club, was well received by the public, although the weather was discouraging the first day. The arrangement of exhibits left some room for improvement, the general appearance of the hall not being quite as pleasing as last year; there were so many flowers lacking the relief of any foliage. The same criticism may be made of individual efforts; the arrangement in no case did the material justice.

The competition in a number of cases was very close. N. Zweifel's table of cyclamens was beautiful. The roses as displayed showed an increased appreciation

of foliage, but this feature was missing from the carnations.

In the plant awards L. Schandein received first for display of 20, best 12, best 6 yellow, second for 6 white and 6 red. Currie Bros. received first for 6 red and 6 white, second for 6 yellow, display of 20 plants, and standard. N. Zweifel received first for standard. John M. Dunlop first for 20 single stem plants, second for best 12 plants. J. Freitag received first and J. Arnold second for 6 white.

In cut flowers Currie Bros. received first for 20 named varieties; N. Zweifel first for 12 varieties, first for 6 varieties, second for best 20, and vase of 20. Lake Geneva Floral Co. first for vase of 20. Best collection, J. M. Dunlop.

L. Schandein received first for 50 decorative plants and 12 ferns. Certificates of merit were given to J. C. Vaughan, H. von Oven and John Valom.

In cut roses prizes were awarded to Currie Bros., J. Meyer, H. Staep, W. A. Kennedy and Reinberg Bros.; for carnations to H. E. Chitty, M. Zweifel, F. B. Dilger. A. Klokner received first for dinner table decorations, Currie Bros. for vases and bouquet. C. B. WHITNALL.

Worcester, Mass.

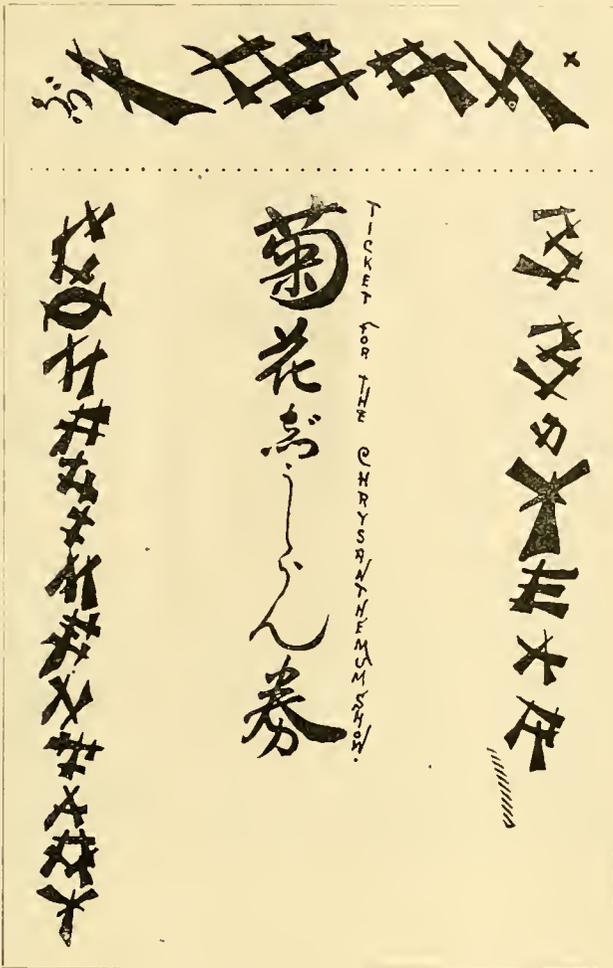
The eleventh annual chrysanthemum exhibition was held at Horticultural Hall November 13, 14 and 15, and the usual raw stormy weather that always strikes us on the opening of the show was with us, tending of course to keep down the attendance and making it rather risky to bring plants without freezing them. Notwithstanding all this discouragement the show was better than ever, and at this writing the attendance promises to more than equal that of last year. Probably the biggest improvement was noticeable in the quality of cut blooms, although Lange showed some magnificent plants that went ahead of anything ever shown in this town.

The arrangement of the hall was similar to that of last year, differing only in some of the minor details; coming into the hall the first thing that struck the eye was the large round table containing the vases of mixed varieties, that were only second to the vases of one variety, which held the most magnificent lot of blooms ever exhibited in the hall; one vase of Vivian-Morel shown by Lange was especially fine, the flowers averaging seventeen inches.

A splendid specimen of Kentia Belmoreana surmounted the table of twelve and six specimen blooms, which were far ahead of those shown in 1893. Among the best flowers on this table were Niveus, Queen, Harry Balsley, Mutual Friend, H. L. Sunderbruch, W. H. Lincoln, Vivian-Morel, Mrs. Jerome Jones, Beacon, Wm. Seward, Golden Gate and Golden Wedding; the largest bloom, Niveus, was shown by F. A. Blake. On the stage a glowing mass of color, relieved here and there by palms and ferns of more sober hue, was displayed by H. F. A. Lange, and the east side of the hall was banked with the displays of C. D. Thayer and the State Asylum, while on the opposite side were the amateur exhibits, which were very creditable. Moral—the "mum" has come to stay.

Following are the principal awards:

Plants: H. F. A. Lange first for 12 plants, 6 plants, display in pots, specimen plant and 6 plants grown to single bloom. Lange also received first for 12 cut blooms, 24 sprays, vase of one variety and vase of mixed varieties. F. A. Blake received first for one cut bloom, and M.



A STRIKING ADMISSION TICKET

F. Briery first for 6 cut blooms. In the amateur class Mrs. E. C. Brooks received first for three pot plants. SEEDLING.

Oshkosh, Wis.

With but few exceptions this city has produced the finest chrysanthemums, both plants and cut blooms, in Wisconsin. As it is gotten up and managed by the Oshkosh Florists' Club the city gets the credit for it, but all the officers of the club are ladies, and the whole affair is conducted by them. It is a pleasure to note the interest taken in the Chicago show by the ladies who judge the floral arrangements, but we know of no other city where the ladies make such an organized effort for the production of flowers, and the enjoyment of them by many. Mrs. E. P. Sawyer, president of the club, produces, with the able assistance of Mr. Lewis, a fine lot of specimens. With a president like Mrs. Sawyer and a secretary like Mrs. Steele success is assured. The side room for refreshments is always a taking feature at the Oshkosh show, and might be copied by other places with advantage.

Mr. Lewis won 14 first prizes, Isaac Miles 3. John Nelson was a very close competitor in the principal entries; his basket of flowers was far superior to any other, and his orchids were good. Robt. Mahlman (amateur) received two first premiums; Mrs. Jno. Wood had the best white carnations. A few seedlings from J. C. Vaughan attracted considerable

attention. "Shavings" is a curiosity; its name tells all about it; Mrs. W. H. Rand, a ragged yellow, is quite a departure from older varieties, and Burt Eddy a beautiful flower. The display of roses and carnations was fine. The attendance seemed good, in spite of bad weather.

C. B. WHITNALL.

Kansas City, Mo.

The chrysanthemum show held under the auspices of the ladies of the Lutheran church the 7th, 8th and 9th of November at Armory Hall, was a great success, some \$800 being cleared for the benefit of the church. Probst Bros. Floral Co. had a fine display, especially of single stem plants in 5-inch pots, and some excellent cut blooms. Heite Floral Co. were strictly in it. Their plants were dwarf and well flowered and sold readily. James Payne had a very nice little display, a good portion of the plants being the old Diana, which took very well. Nelson Jarrett's display was very neat, also that of V. J. Barnes and Albert Barbe. R. S. Brown & Sons decorated the hall with fine palms. The boys are all inspired by the success of the show and there is some talk of forming a club, giving out own shows another year. Business the past week has been very good. Mr. A. Newell has just put the profits of two months into a 2:30 horse. He is a dasher, and it don't take him long to run out and sample Murray's cider. S. MURRAY.

New Orleans, La.

The Horticultural Society held a private show here in Mr. Simon's store. There was an excellent display, including some fine seedlings. A plant of W. G. Newitt, exhibited by J. A. Newsham, was the finest specimen shown. Mr. Newsham's plants were all fine, and he also exhibited a quantity of cut flowers. Harry Papworth, gardener to Mrs. Richardson, showed some fine specimens, and also seedlings. John Eblen showed a good collection, and C. Holst a number of seedlings. C. W. Eichling made a liberal display of cut blooms. R. E. Simon had a large collection of chrysanthemums, including the newest varieties, and also a display of roses and floral designs. Though gotten up primarily merely as a private show among the florists many of the general public were glad to avail themselves of this opportunity to view such a good display.

A Striking Admission Ticket.

We present herewith, through the kindness of Secretary Gale, a fac-simile of the complimentary ticket issued by the Hampden County Hort. Society, Springfield, Mass., for its chrysanthemum show this year. As will be noted, the lettering is in imitation of Japanese characters, with "1894" across the top, "complimentary" down the left hand side, and "33d year" at the right. In the center are evidently some genuine Japanese characters with English translation. On the lower part of the ticket appeared the official seal of the society.

Chrysanthemum Society of America.
PHILADELPHIA.

Following are the additional new chrysanthemums awarded certificates of merit by the Philadelphia committee of the Chrysanthemum Society of America:

Dean Hole (John N. May). White, flushed beautifully with delicate pink. Japanese, immense in size and exquisite in form. A very promising variety.

Miss Louise D. Black (E. G. Hill & Co.). An improvement on Mrs. L. C. Madeira. In color it is a deep rich yellow, and it has stout erect stems.

Gold Fever (E. G. Hill & Co.). What a name! This is also of the Madeira type. The flowers, however, are larger than are those of that well known variety.

Henry G. Rieman (E. G. Hill & Co.). This is also a rich shade of yellow. In form similar to the white variety Mrs. Robert Craig, but it is very much larger. This should take rank in the very first class.

Mrs. Edward H. Trotter (Robert G. Carey). Pure white, of great solidity; a well built flower on stout and erect stems. Reflexed Japanese in type. This looks as though it ought to be a first-class commercial variety.

Oakshade (Robert G. Carey). So named after the summer residence of Thos. C. Price, Esq., Chestnut Hill, where it originated. In form it is very distinct and beautiful. Its petals or florets are quite peculiar—resembling somewhat the floret of a salvia. Its color is hardly likely to become popular, I am afraid, as it is of a dull purple shade.

Miss Margaret Newbold (Robert G. Carey). In color it is a very delicate pink. Incurved Japanese, somewhat resembling Mermaid, but it is of a much better color.

Philadelphia, and the one under number exhibited by Thos. H. Spaulding in com-

petition for the Blanc Prize, were also awarded certificates by the committee appointed under the auspices of the C. S. A. E. L.

CHICAGO.

But three seedlings were submitted to the Chicago committee of the Chrysanthemum Society of America November 17. Of these, two seedlings sent by F. Dorner & Son, Lafayette, Ind., were recommended for certificates. No. 14 was an incurved of a peculiar type, difficult to describe. The florets were tubular with an open flare at the ends, inside a pink terra cotta, with light reverse. The flower presented varying color effects under differing exposures to light. Its main value will probably be as an exhibition flower. The flowers shown averaged 6½ inches in diameter. No. 25 was a reflexed flower of considerable depth—diameter 5 inches, depth 4½ inches—white streaked and shaded with amaranth.

Juno was the name of a variety sent by N. Smith & Son, Adrian, Mich. It was a massive high built bloom, incurved, petals canoe shaped, pink inside, buff reverse. Owing to the shape of the petals and flower the buff was the only color seen except on close examination.

In addition to the above Messrs. Dorner & Son sent blooms of a number of other seedlings for the opinion of the judges only, there being an insufficient number of blooms of each to enable them to make a regular entry. These all seemed meritorious. No. 1 was a large, high-built pink, and on the stem was a leaf that was worthy of note; it measured 8¾ inches long by 5½ inches wide. No. 5 was a large, fine, incurved yellow; No. 8 a high built yellow; No. 20 a large bronze and terra cotta reflexed; No. 21 a large flat pink, petals tubular with incurving tips.

Chrysanthemums for General Use.

"Buckeye Boy" wants to know "the best method from start to finish to grow bush and standard plants." Admitting that the instructions which have appeared in your columns about "mums" can't be beaten for those wanting to grow fine flowers on a bench "B. B." very properly says that the small retail florist has to grow them with several objects in view, viz: First for cut flowers; second, pot plants; third, to propagate them for spring sales and fourth for decorations for store openings, social events, etc.

I am going to tell "Buckeye Boy" how he can grow cheaply fine bush plants which with plenty of disbudding will produce him fine flowers if he has to cut them; it will give him the most salable kind of a plant for any purpose. The method I adopted a few years ago of growing chrysanthemum plants quickly I learnt from Mr. W. K. Harris and Robert Craig. It is not the rule for my neighbors to grow them in this way, on the principle I suppose that "a prophet is not without honor save in his own country." As soon as the plants are out of flower either cut on the benches or from pots, the plants, if grown on the benches, are lifted and planted in flats in their sorts, and kept as cool as possible without freezing until February. By that time they will begin to make a growth. You cannot propagate the whole crop at once, so you must begin in February to take off cuttings that are sufficiently large and strong enough to make good plants. With large chrysanthemum growers it is almost a continual propagation

from February till August. The plants you want for your pot plants should be put in the sand the end of April. By the middle or end of June they will be thrifty growing plants in 3-inch pots, and once stopped. By the 20th of June I like to have them planted on the benches in about 5 inches of soil. Sometimes I have used a carnation bench, where the carnations had been thrown out, adding to the old soil a little well rotted manure and a sprinkling of bone dust, but really the soil is not of great consequence for this purpose, as long as it is light and easily handled. I plant 15 inches apart each way. From the time of planting until they are lifted they should be stopped or pinched twice. You will have had the chance to keep them watered, syringed and fumigated, and by September 1 they will be bushy thrifty plants. Now here comes in the difference between bench grown plants and those planted out of doors; the roots of the former are not spread over all creation. A fork put well under them will lift them without the loss of scarcely a working fibre. Mr. Wood thought about the 20th of August was a better date than September 1 for lifting, but from even this year's experience I must stick to my date, September 1, or thereabouts. Have arrangements made so that the plants can be potted at once into 5, 6, 7, or 8-inch pots just as soon as lifted. If possible give them a slight shade for a few days and a dusting of water 2 or 3 times a day. In a week the plants will have hold of the new soil and then will stand a light house, and by degrees more air. Do not let them be outside under any consideration if you can possibly help it. Plants that you lift in September will more than double in size before you sell them, so be prepared to stand them over and space them every week or two. If you follow out this rule your plants won't lose a leaf and your flowers will be as perfect as if grown to a single stem, although of course if you are going to have a dozen flowers from a 6-inch pot plant they won't be exhibition flowers.

The business of tying must be attended to as soon as lifted, but that will largely depend on varieties. Some stiff branching varieties like W. H. Lincoln will do with a single stake in the center with the side branches supported by a fine thread. Smilax thread is a first rate tying material. Others like Ivory, which is the ideal pot plant at least in its color, will require 4 or 5 slender stakes to keep its flowers from crowding, and the plant from having an inclination one way or the other.

About disbudding; that will largely depend on your trade. Where a good price is paid for a plant, say \$1.50 for a 6-inch pot, it pays to leave only one flower on each shoot. If you want sprays then pinch out the crown bud and leave the three side buds, but never let any of them go without some system of disbudding. As the enquirer wanted to know the whole treatment I may add that chrysanthemums are the easiest things to root in winter, but after April they hang fire a little. They can be rooted freely any month in the year, but there are two conditions which must be religiously observed: Never let the cuttings wilt in the sand and, which is the same thing, keep them saturated until they are rooted.

Although I have grown good standard chrysanthemums I won't pretend to be an authority on them. The principal points are, select strong healthy cuttings in January. When rooted pot into 2½-inch pots; before they become too much root bound in that, shift into a

4-inch and from a 4 into a 6 and from the latter into the pot which they are to flower in, a 10 or 12-inch. Keep them growing without a check of any sort until they are the desired height 4, 5, or 6 feet. Keep all lateral shoots pinched off till they have grown to the height you want them; then stop them and let half a dozen of the lateral shoots grow, but they must be all near the top. There are several ways of training a standard. I like best a stout stake not less than one inch in diameter, through which you can bore holes ¼ of an inch and run through a stout stiff wire, which can be bent in umbrella shape, you can run one-half a dozen such wires within a few inches of the top of the stake. Smaller wires can be run at any convenient distance from the heavier wires from the outer edge up to near the stake. As the lateral branches grow they can be tied down to the wires and when they have grown to the full width of your wire frame should be pinched, and from these branches will spring laterals that will give you the flowers. A well grown standard should not have its flowers all looking up perfectly perpendicular but they should all be looking out from the center. I can tell "Buckeye Boy" that growing standards is an expensive affair, and they are most difficult to handle after they are grown, a few may be a drawing card for your own private show, but after all they are something like the tricks of a trained animal, their beauty lies principally in the contemplation of how long and difficult it was to make them so more than any beauty or pleasure you can see in them themselves.

I am going to finish up this unintentionally long article by giving you a list of a dozen or so of the best varieties of chrysanthemums for growing as bush plants, as described above. The varieties are chosen entirely from my own experience. A few are new varieties that I have tested this year and some are old varieties that have been entirely discarded for bench growing for fine flowers, yet they possess all the characteristics desirable in a pot plant. Here they are:

Ivory,	Joseph H. White,
Mrs. Whildin,	W. H. Lincoln,
Etoile de Lyon,	Maud Dean,
Pitcher & Manda,	L. Canning,
Bayard Cutting,	Challenge,
Wm. Falconer,	Dorothy Toler,
Mrs. W. K. Vanderbilt,	Hicks Arnold,
Minnie Wanamaker,	L. Boehmer.

This brief list embraces but a meagre few of the hundreds of fine varieties, yet they are just what is wanted for a good bush plant, free flowering, short jointed, healthy, and mostly dwarf varieties.

WM. SCOTT.

Chrysanthemum Richard Dean.

I notice in the report of the Chicago show this variety was described as a beautiful shade of pink. Mr. T. H. Spaulding distributed this variety in this country and describes it in his catalogue, page 19, as a deep crimson, golden reverse. This agrees with Mr. Robert Owens' description, who controlled the stock. With us it is a chestnut red with bronzy reverse and shows a center, being of no value for American trade. Not having seen the blooms exhibited, am unable to give the name of the pink one, but with us Louise, by Calvat, 1892, is the best commercial variety we imported last spring. It is very light pink, much the same in color as Pres. Wm. R. Smith, but not as bright in the depths. Habit dwarf, short jointed, with short stout



ONE OF MR. GROVE P. RAWSON'S CHRYSANTHEMUM HOUSES, ELMIRA, N. Y.

stem. I also notice that in the opinion of the judges Mrs. L. C. Madeira has been superseded. As we did not purchase a complete list of novelties last spring, I beg to ask by what variety it has been superseded? As far as I know this incurring Chinese is distinct and of value for exhibition in this class, although not a commercial variety. ELMER D. SMITH.

[In the recently published list of O. de Meulenaere we find the following: "M. Richard Dean (Calvat, 1893). Delicate rose with a tinge of yellow, ends of petals crimped and fringed. Richard Dean (Owen, 1893). Deep crimson, reverse gold, long petals."—ED.]

Three Dozen Good Chrysanthemums.

The question from "H. C. M." who wants a list of 12 good early chrysanthemums, 12 mid-season and 12 of the best late sorts is referred to me. It is a little difficult to classify many of the varieties as early or mid-season. In some localities, and more particularly under different treatment, sorts that with some growers are really early are with others only what can be called mid-season. Some good authorities may criticise my arrangement but it is near enough and will give you flowers from October 15 till Christmas. I have put Minnie Wanamaker in the midseason list, and it belongs there, but this still unsurpassed grand white will keep in good useful condition till the middle of December, and I have kept it till the 27th of December.

I haven't chosen the varieties because they make grand exhibition flowers, although most of them will do that, but because they are all good healthy growers of distinct colors, and can be depended on

to give you uniformly fine flowers and hold up their heads, a very important point in the modern chrysanthemum. There are several varieties that are good for pots not named in the list, as "H. C. M." did not I believe ask for that information.

TWELVE EARLY.

Yellow Queen, best early yellow.
 Marion Henderson, yellow.
 Mrs. J. G. Whildin, yellow.
 Mrs. John Gardiner, deep yellow.
 Ivory, white.
 Mrs. Bergman, very early white.
 Marie Louise, white.
 Jessica, white.
 Mrs. E. G. Hill, pink.
 Vivian-Morel, pink.
 Lady Playfair, pink.
 Mrs. A. J. Drexel, crimson lake.

A LARGE DOZEN FOR MID SEASON, BUT ALL GRAND.

The Queen, purest white.
 Niveus, grand white.
 Minnie Wanamaker, white.
 Mrs. Bullock, white.
 Mutual Friend, white.
 Eugene Dailedouze, grand golden yellow.
 Harry Sunderbruch, very large yellow.
 Mrs. Craige Lippincott, yellow.
 Ermenilda, pink.
 Pres. W. R. Smith, pink.
 Mrs. Potter Palmer, pink.
 Maud Dean, fine habit, pink.
 Inter-Ocean, beautiful flower, pearly white.
 Col. W. B. Smith, golden bronze.
 Hicks Arnold, most useful bronze.
 Margaret Jeffords, large bronze.

TWELVE LATE.

Mrs. J. G. IIs, white.

Mrs. R. Craig, fine incurved white, as beautiful a flower as Ivory.

Mrs. Jerome Jones, white.

Ed. Hatch, almost white.

W. H. Lincoln, rich yellow.

Mrs. F. L. Ames, deep yellow and very large.

E. G. Hill, deep yellow, and will keep till New Year's.

Harry Balsley, grand pink.

V. H. Hallock, pink.

Roslyn, pink.

Laredo, pink.

Challenge, dwarf, can be grown on side bench and make a splendid bush plant, fine yellow.

Now there are dozens, yes, hundreds, besides these worth growing, but if you grow all of the above and grow them well there will be little to regret.

WM. SCOTT.

Chrysanthemum Wanlass.

We are advised by Mr. T. D. Hatfield that the correct spelling of this name is "Wanlass" and not "Wanless" as given in the catalogues. Mr. Hatfield writes that in England "Wanlass" is a north country name for "Fairy," or the "lass that carries the wand."

We have received from Messrs. Cole Bros., Peoria, Ill., a photograph of a chrysanthemum grown on a wire frame in the form of a bicycle. It must have required a great deal of work and care to accomplish the result. As an example of ingenuity it may have some value, but it certainly was not beautiful.

A chrysanthemum and baby show is a combination evolved by a giant intellect in a small western town.



Carnation Notes.

Many growers are of the opinion that cuttings rooted in April or May make much better plants than those rooted earlier. They do not like a large plant in the fall, believing that a small one transplants better and makes finer flowers. This is often the case, but the trouble starts when the plant is young. Cuttings can be rooted in January with impunity and with such sorts as McGowan the best of results will be obtained providing the plant is kept growing right along without a check. I do not believe that a young plant should ever be potted, as it is apt to become potbound, which gives it a check from which it will not, as a rule, recover unless the season outside is unusually favorable.

My method when propagating for my own inside planting is to take the cuttings from flowering stems in January or February, rooting them in four inches of clean sharp sand with little or no bottom heat. I do not believe in propagating benches with the sides all boarded to the bottom, thus confining the heat under the bench; this I think makes the cuttings weak and it certainly does not make them take root any quicker, for without heat we have no difficulty in rooting most varieties in three weeks; as soon as rooted they are planted on a bench in a loose, moderately rich loam that is two inches deep. When the plants begin to crowd each other they are transplanted a little farther apart. This is not as long an operation as repotting which must be done before the plant is potbound or as I stated before, a check follows.

Now, my reason for benching in preference to potting is that when the latter method is used unless the ball is well broken before planting outside it remains in that condition all summer, and should a drouth prevail for any length of time the plant will not do as well as if taken from a bench. It is true that during a wet season the plant will make a great quantity of roots, but when it is lifted in the fall the ball will as a rule be found in the same condition as when planted outside. Now comes the rub. It is almost impossible to get the soil in the bench in the same condition or state as that old ball, and as all of the new roots center in the ball it is necessary for the welfare of the plant for all of the root part to be moistened equally, which can not be when the ball is there for if we pack the new soil to make it as hard as the ball naturally becomes during the summer, the roots starting after planting inside will have very hard work to make any headway. This matter can easily be tested by every grower, simply by trying both methods. I was more than ever convinced that my theory is correct when I visited a grower who tried both plans the past summer. The plants he had started in a bench were as fine as any I had ever seen and those grown in pots after planting inside were losing all of their leaves up to where the new growth commenced. This was November 1.

These remarks do not apply so much to the growers who lift a large ball with the plant in the fall which (as I have stated

previously) I do not approve of, but to those who shake off most of the soil.

CHARLES H. ALLEN.

Carnations at the Phila. Show.

The display of carnations was much larger and finer than in previous years and was quite a feature of the show.

The Chester County Carnation Society made an excellent exhibit of standard sorts. Their flowers seemed well grown and kept well. From Chester County there were a number of seedlings, almost all the growers contributing from one to a dozen. Ed. Swayne had quite a vase of *Opheia* which is similar to *Sweetbrier* but a few shades darker. Mr. Chas. Starr had a fine vase of *Lois J. Haettel* and some seedlings. Isaac A. Passmore had a fine striped one resembling *Helen Keller* but with more color, and a promising scarlet. W. R. Shel mire a host of *Cæsar* seedlings and a number of new named ones—*Eulalia*, a deeply striped one making almost a pink by artificial light, seems good; *Edelweiss* is a yellow of good promise; *Kitty Clover* resembles *Helen Keller* and looks like a good sort.

Hugh Graham made a fine display of *Adelaide Kresken*, *Mme. Diaz Albertini* and standard sorts. *Crimson Coronet* looked well in this exhibit and Wm. Scott and *Helen Keller* added laurels to themselves.

Mr. H. E. Chitty exhibited his new ones—*Alaska*, *Corsair* and *Magnet*, all showing up well.

Myers & Santman had a vase of their new one, *Della Fox*. This looks like a decidedly good thing of the *Daybreak* type.

John N. May showed some fine seedlings—*Maud Dean*, resembling the old *Dawn* but much larger and better in every way, attracted quite a bit of attention. *Dean Hole* seems a promising yellow and *Lena Saling* a good deep pink.

Bouton d'Or was here in fine shape but with weak stems.

Z. De Forest Ely & Co. had several fine vases, a bunch of *Thomas Cartledge* being especially pretty by artificial light.

A. M. Herr exhibited 100 each of *McGowan*, *Daybreak* and *Wm. Scott*, well grown fine flowers.

Carnation men can congratulate themselves on their showing at this exhibition but it is a pity they had not more light.

A. M. HERR.



Cypripedium Chamberlainianum.

This beautiful species deserves a place in every establishment. When once established it is easily handled and flowers freely, throwing up its long flower scapes and continuing to bloom for months, each flower lasting long in perfection. It is entirely distinct from any other species and will at once arrest attention among a collection. Its medium sized pea green dorsal sepal is margined deep yellow with rich suffusion of brown at the base, and dark brown longitudinal lines extending to the margin. The petals are about two inches long twisted like a corkscrew, green densely barred with rich brown, beautifully undulated and with ciliated margins; staminode brown, tinged green at the

lower end; the pouch two inches long of rich magenta, densely spotted brown, having rich yellow margin; leaves light green, long and broad, faintly tessellated. It likes a warm moist atmosphere well up to the light, but slightly shaded from direct sunshine.

WM. ROBINSON.

North Easton, Mass.

Dendrobium Phalænopsis Schroderianum.

Fortunately this beautiful dendrobe (of so recent introduction) has proved so useful, showy and valuable an orchid for the florist and decorator that it is destined to become as popular as *D. nobile*, and in fact will be used even more extensively when better known. It blooms during the fall and winter in great profusion from the apex of the pseudo-bulbs and twenty to twenty-five blooms is not unusual on a stem. Considerable variation of color is prevalent, some being rich dark warm purple, others being pure white; the predominating color, however, is a delicate lilac tint. During its period of growth, which is in the summer, it should occupy a very light position with abundance of water, avoiding full sunlight. The hottest end of a palm house has been found to grow it with excellent results; one of the finest batches in cultivation is treated in this way at Wyndmoor, Chestnut Hill, Pa., in Mr. E. Lonsdale's establishment; the moisture-laden atmosphere caused by copious syringing of the palms, together with the warm summer heat, has produced finer bulbs than has ever been seen on imported specimens.

Baskets and pans are best, the latter being preferable as they do not dry out so rapidly during growth. About equal portions of good fibrous peat and sphagnum moss should be used. The flowers remain four and five weeks in good condition, and unlike many of its congeners it possesses a useful long stem, which can be utilized without cutting away a particle of the bulb; in shape the flowers resemble a *phalænopsis*, hence its name.

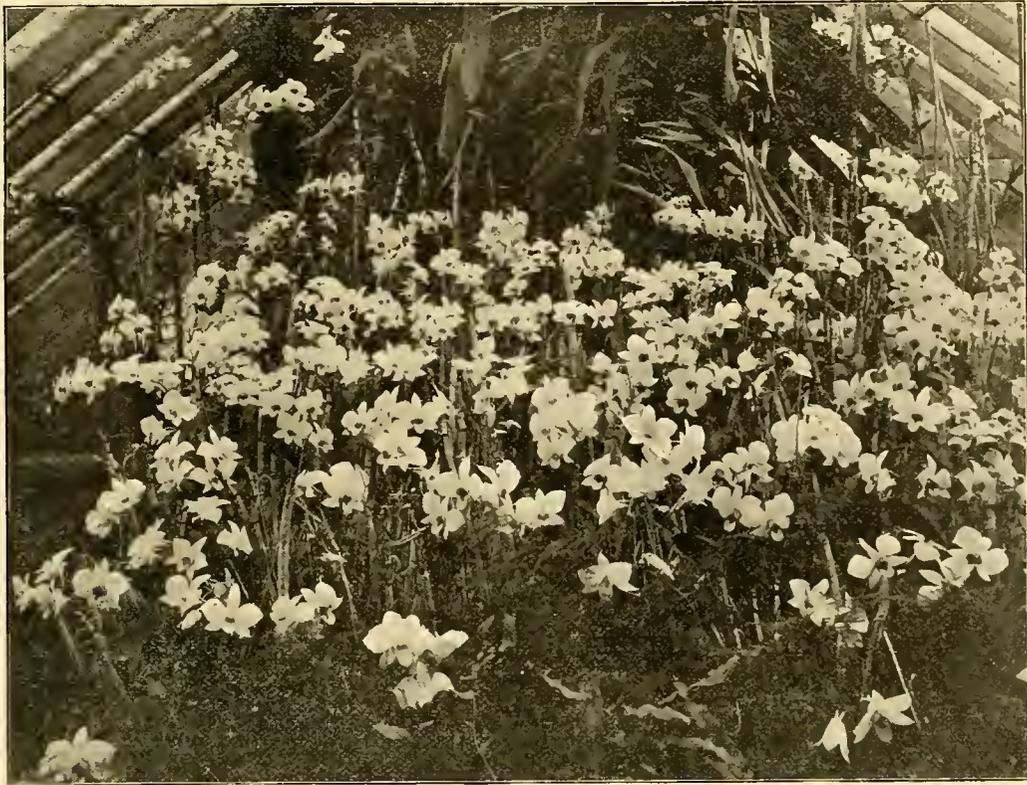
A. DIMMOCK.

New York.

Chrysanthemums, while still available in abundance, are less a factor in the market than they were one week ago, and roses, carnations and violets will presently resume their position of prominence temporarily vacated in favor of the chrysanthemum. Violets especially felt the extra demand occasioned by the horse show last week and are not likely to remain long at the high figure recently reached. The drop in price has been retarded somewhat, however, by the very cold weather with which the current week begins. Otherwise there is little or no change in the market here since last report. Trade is not generally good, only here and there a show of good business.

First-class Beauties are still selling above everything else in the rose line. Carnations are "taking a move on," particularly the good varieties; although the price has not advanced yet general returns are slightly better. *Smilax* has been selling well for the past two weeks, ahead of last year, but there is not as much of it grown this season. *Lily of the valley* has been over plentiful the past few days.

Ernst Asmus has some new carnation houses built upon the same plan as the latest addition to the F. R. Pierson Co.'s establishment, i. e., with the sash bars resting on a light angle iron in front, the usual heavy wooden plate being dispensed



GROUP OF DENDROBIUM PHALÆNOPSIS SCHRODERIANUM

with. Mr. Asmus is in doubt as to the value of such a construction for carnation growing, as it is impracticable to give front ventilation. For Meteor or any other crop requiring high temperature this consideration would not have so much weight. The best dark red carnation with Mr. Asmus is Pomona, which has a neat stocky habit and blooms well. Jacqueminot as elsewhere has had to go on account of the rust. Salmon Queen formerly a favorite variety here is run out, and its place is more than filled by Scott and Daybreak.

Among the more recently introduced variegated foliage plants Pitcher & Manda report a special demand for Stenandrium Lindenii, Tradescantia reginæ, Strobilanthes Dyerianus, Curmeria Leopoldi and Dichorizandra Mosæca, Aglaonema picta, not new but scarce, also sells rapidly since it was shown at the exhibition in Atlantic City.

J. W. Mortimer of 2222 Third avenue has opened a branch store at 40 South Fourth avenue, Mt. Vernon.

Philadelphia.

There are a great many "mums" about as yet, but the rush seems to be over, and from this time on the stock will begin to decrease. Ivory has been nearly all cut out as also has Whilldin, Niveus, Queen, Jessica and others. Those most plentiful now are Dailedouze, M. Wanamaker, Cullingfordii, Lincoln, Ada Spaulding, Roslyn and small lots of many other varieties. Mr. Heacock had a few very fine Mrs. M. Thomas and Mrs. Jerome Jones, both good varieties. Dailedouze has shown up very well this year, but is now developing a very weak stem and the same may be said of nearly all varieties in general and H. Balsley in particular, which latter kind is almost unsaleable on account of its weak stem. It is a

pretty good dozen now that commands \$1.50, and for \$2 they must be very fine.

Mr. Harris has a house full of the new variety Mrs. H. H. Battles, this is like Ivory somewhat with a pink tinge such as is seen on Ivory towards the last of the crop, it is a very pretty thing and takes the place of Ivory, which is now gone. Mr. Harris' house of this variety is a sight, it being almost flower against flower, blooming as it does so profusely. Mr. Battles has used a great many of this variety, making it a leader, 200 per day has been his quota for some time past. At the launch of the St. Louis some 500 of this kind were used and was much admired. Mrs. Robert Crawford is another very pretty white raised by Mr. Harris, this looks like a good commercial flower. Another white beauty of last year is named in honor of Mrs. Thomas Cartledge; this is a gem but not in yet, it being very late. Another very excellent variety is to be called Mrs. George Craig but for some reason or other Mr. Harris has not christened it as yet.

American Beauties have jumped to \$25 per hundred for first choice and some selected teas now bring \$5 and \$6. The majority, however, are still at the old figures, \$2 per hundred for Perles, Gontiers and Mme. Cusins, and 3 to 4 for the largest teas. The quality of all varieties is improving. Testout is fast becoming a favorite and seems to be selected in preference to La France.

Carnations are inclined to stiffen up a little, \$1.25 to \$1.50 being asked for extra flowers while very good ones can still be had in quantity for \$1. This is the price to the stores, the fakirs get what they want almost for the asking; they are sold on the street for from 5 cents per dozen up to two dozen for 25 cents, when the commission and expenses are paid on these lots, what remains for the grower is scarcely discernable.

The meeting of the Penna. Horticultural Society last Tuesday evening will long be remembered by those present; it opened at the usual hour 8 o'clock, but it was 11:30 before Mr. Craig declared the meeting adjourned. The greatest interest centered in the report of the committee representing the capitalists or those who are advancing the money to build the new hall. The lease of the building or ground contained clauses which appeared to shut the society out of any revenue, no matter what the receipts might be, and the society was also asked to pay half the salary of the employes of the new building. This was too much and created no end of discussion. There was a very large attendance and everyone present seemed greatly interested. The committee having in charge the dividing the work of the society into sections made a complete and very favorable report. Every month there is to be a report and paper read by a certain section, illustrating its objects. This plan will certainly add new life to the work of the society and greatly increase the interest in its meetings.

The bondholders reported subscriptions to the amount of \$130,000, and prospects of getting the balance to make up the requisite \$200,000. A letter from Miss Schaffer, who with her brother endowed the society, was read. In it she expressed a wish that the new building should not be erected, but the lot be sold and the proceeds be invested with the exception of some \$50,000 to be used in erecting a library and meeting room. This caused great surprise and after considerable discussion it was decided that the plan had gone too far and the hall should be erected as projected.

When the meeting adjourned the majority of the members were in a very confused state of mind and it looks as if it

would take a special meeting to straighten matters out.

The Phila. Growers' Cut Flower Market, about which so much whispering has been going on for the past two or three months, has it seems begun to raise its voice a little. In this city the greatest secrecy has been observed and everybody approached has been especially enjoined not to say a word about it for fear, well for fear of something, but nobody knows what that something is. Now, however, word comes that from the Chester Co. hill tops the whole matter is blazoned forth so that all who have ears can hear and there is no more secrecy anywhere.

It seems there is to be an exchange for the sale of cutflowers and combined with this a place where all growers and dealers in such stock could purchase supplies at wholesale rates. \$25,000 is to be the capital stock, consisting of 1000 shares at \$25 each, 20 per cent. of which is to be paid at time of subscribing and the balance in monthly installments. The flowers are to be sold on a 10 per cent. commission and only members can enjoy the selling privileges of the exchange. All stock sold is to be graded and each grade thrown together, each grower to receive credit for pro rata share of stock sold each day. A building near the City Hall is to be engaged as soon as three-fourths of the growers, we presume about or in Philadelphia, agree to do their business through the exchange. The building is to be fitted with the latest appliances, for handling and keeping cut flowers and telephone connection made with prominent growers. The scheme is a good one in many respects, but something much simpler should have been organized by the growers of this city at least eight years ago. It could have been done then much easier than it can now, and the results would have been more than satisfactory. K.

Baltimore.

Although the chrysanthemum show was crowded by night, the attendance during the day time was not as great as in previous years, so the committee who had charge are rather downcast. Any one who knows the difficulties under which they labored can be depended on for a word of praise to them even though the net returns may be very much more behind the last years show than has been predicted. It was a grand show in many respects, and that it was surprisingly successful is due first of all to the committee, second to the members of the club who stuck to the work and brought out the best they had and entered it, whether that best was superior to last year's products or not. There was another committee that deserves a word of commendation. It was appointed to collect, pack, and ship the flowers intended for entry in the Philadelphia show, but could not do it as the blooms sent by members were not nearly open enough to stand any chance in the contest.

A number of entries not for competition received a vote of thanks from the club; Hugh Graham of Philadelphia for his beautiful vase of "Philadelphia"; Messrs. Pitcher & Manda, Short Hills, N. J., collection of new varieties; John Burton, Philadelphia, vase of American Belle rose; Mrs. M. J. Thomas, group of palms; Messrs. Chas. Hamilton, F. W. Wood, Geo. Lotze, C. Hess, various deserving displays, and Charles Feast for a charming piece of music called "The Pretty Chrysanthemum," composed by him and dedicated to the club.

Notwithstanding the hard times there is talk of more stores being started, and notwithstanding the crowd of gardeners hereabouts, another arrived a short time ago and was received with open arms. He is staying with Mr. P. B. Welsh and not a soul has said a word to Philip against his taking in a young man without any experience whatever. MACK.

Cincinnati.

The show in the Jabez Elliott market was free, but the growers are all more than pleased with this week's work, and the display was a grand success. On Wednesday, Thursday and Friday the sales were only about equal to the regular markets, but on Saturday the people commenced to open their hearts and pocketbooks.

Fred S. Walz showed a handsome vase of Mrs. Potter Palmer and Golden Wedding, with pot "mums" for a background, and above the stand was the American eagle done in yellow "mums." G. Brunner's Sons showed pot plants well grown and some fair exhibition "mums," with a few choice American Beauties and carnations. R. Witterstaetter put up a fine display of choice cut blooms consisting of Golden Wedding, 9 inches in diameter; Nellie Bly, Kioto, Dailedouze, Marie Louise, Major Bonaffon, Harry Balsley and W. R. Smith. A few pot plants of "mums," cut carnations, marguerites and violets were also displayed.

Corbett & Wilson made a good show of general market plants and some very good cut blooms. R. J. Murphy displayed cut blooms of "mums" and carnations only. B. J. Glens made a fine display of market plants and cut blooms of "mums," carnation and roses. E. Mauthy showed pot plants principally with some cut blooms; H. Corbett pot plants of "mums" and good cut blooms. Wm. Bolia displayed cycas, palms, bouvardia, carnations and a magnificent vase of "mums," Rosalind. John Fries showed some well grown pot "mums." Kioto seemed to attract the most attention. Thomas Jackson showed pot plants of "mums," carnations and geraniums. Joseph Linfoot's stand was very attractive, backed with pot plants, flowers and designs in front. Jules Schuman's display of pot plants attracted much attention; they were well grown; he also made a creditable show of cut blooms, T. J. Conger showed plants and flowers. B. P. Critchell made a good display of decorative palms and cut "mums." C. C. Murphy showed carnations and cut "mums."

The Hoffmeister Floral Co. had a very complete display of market stock, especially roses, cut "mums," carnations and pot plants. Wm. Underwood showed pot plants, cut flowers, etc. T. Caldwell had some well grown plants and made a good show of cut blooms. Henry Schwarz showed some well grown pot plants. Wm. Murphy made a fine display of carnations. E. Mack showed pot plants and cut flowers. H. Bertrand showed a fine collection of pot "mums." Reutenshow Bros. showed small market plants only. G. Adrian showed pot "mums," cut blooms and violets. Ed. Fries had some choice pot "mums" of the best kinds. J. G. Finn showed some fine pot grown "mums," as well as cut blooms. C. Burtschy & Bro. made a very handsome showing with pot "mums," palms and cut flowers. Margie & George presented a varied and complete collection of cut market stock. Chas. Pfeiffer showed some exhibition plants of Ivory, Childs, Queen, H. L. Sun-

derbruch, etc.; they were well done and attracted a vast amount of attention. K. Wolfe probably had the best display of decorative palms and ferns. J. Siefreid showed pot plants of "mums" only. J. J. Gest, pot plants of "mums" and cut blooms. R. Schmidt made a fine exhibit of pot plants, consisting of "mums," palms, etc. Louis Pfeiffer made a grand showing with cut blooms. Philip Papp showed a choice collection of pot grown "mums." Frank Huntsman showed some fine pot "mums" and cut blooms. W. J. Gray showed only cut blooms.

Taking into consideration that none of the flowers displayed at this show were grown for exhibition purposes it is doubtful if there is a city in this country that could bring together as fine a collection of market stock. The show was a credit to the growers, and reflects much credit upon the managers, Messrs. George, Linfoot and Conger, who have worked hard to make it a success. The retail stores are inclined to find fault, claiming that the privilege of selling in the market has been very detrimental to their business, but we trust they will find they have been mistaken, as a show always has its good effects, and the stores will be rewarded later.

Laurence Egbert and H. S. Grumberg of Chicago have fitted up a store at 309 Race street, called "Queen City Flower Store," and are now ready for business.

Rudolph Lodder and sister, and Frank Pentland were visitors this week. G.

Boston.

Roses are coming to the market in quality greatly improved, the wintry weather however unacceptable otherwise being just what is wanted to bring the roses to their best condition. American Beauty leads as usual, and the local supply is at no time equal to the demand, some of the large dealers receiving daily shipments of this favorite variety from New York. Other roses grown abundantly for the New York market but seldom seen here are Mme. Cusin and Mme. de Watteville. Both these roses are grown to perfection at Waban Conservatories but few other rose growers touch them. S. J. Reuter is sending some fine Wattevilles from Westerly, R. I.

Carnations sell well, and are unsurpassed in quality. No one should express an opinion as to Mrs. Fisher until seeing the way this variety is coming on to Welsh Bros. from Coolidge Bros. of South Sudbury. Nothing handsomer in the line of white carnations can be wished for. The best selling varieties, that is those that bring the highest individual price are Daybreak and Wm. Scott. It may be added in regard to both these varieties that no rubbish has appeared yet under their names, the stock being uniformly good wherever seen.

Chrysanthemums are still with us but in reduced quantity and much of the stock has the appearance of being past its prime. Varieties decorously incurved in their time are hardly recognizable, flaring wide open and apparently trying to get into the reflexed class. Altogether the trade is pretty well tired of them regardless of class and when they have taken a final departure no tears will be shed.

Roman hyacinths and paper white narcissus are now in the market but selling slowly as yet. Violets are of fine quality and improving daily. Growers are in no hurry to pick them and there seems no disposition to overcrowd the market with them.

At the exhibition in Horticultural

Hall on Saturday, November 17, the great center of attraction was a glass case in which were displayed three cypripediums in bloom from the conservatories of Mrs. F. L. Ames. One of these was a vigorous plant of that rarest and loveliest of all cypripeds, *C. insignis* Sandera, bearing three blooms. Mr. Robinson's heart was made glad by the award of the Society's gold medal to this plant. The other two exhibits were hybrids raised by Mr. Robinson at the Ames Greenhouses, one *ciliolare* × *Lawrenceana*, the other *insigne* × *Boxalli*, both very handsome; a certificate of merit was awarded them. New chrysanthemums were shown as follows: From Elmer D. Smith, Adrian, Mich., Durango, bronze and yellow, and Sinaloa, a pinkish white tightly incurved. From H. F. Spaulding, Miss G. Spaulding, white incurved and from Norris F. Comley a seedling which was highly commended last season and has now been awarded the Society's certificate of merit. It is a pink incurved style of Eda Prass but deeper colored and a better grower. E. S. Converse showed Gros Colman and Black Alicante grapes. The display of fruits, apples especially was very fine. Wm. Christie called attention to a collection of handsome apples grown in Nova Scotia. Strangers within our gates: Geo. Sykes, representing Hitchings & Co., New York and Benj. Durfee and Hugh Kane of Strauss & Co., Washington, D. C.

Chicago.

The trade is assuming once more a normal aspect. Although chrysanthemums are as yet quite abundant these have ceased to be a factor in depressing prices on other stock in general. True, the prices of roses have not advanced to any marked degree, still there isn't that amount of slaughtering of good stock which was practiced during the brief reign of the "mums." Shipping trade was fairly active the past week, a fact which materially assisted in cleaning up the daily receipts which at no time were very heavy.

In local retail circles trade was extremely quiet, the demand in this line being active only in Beauties and violets, the latter in particular being very scarce. The supply of violets has been fluctuating from the extreme of oversupply one week to great scarcity the next. In quality conditions are just as far apart. Some of the stock is very good indeed, while the remainder is of little account. In Beauties the supply and quality are uniform, more so than in any other rose section, the largest portion of the best and long stemmed stock being absorbed by the local trade at prices ranging from \$2 to \$3 per dozen. Testouts are fine; this variety is becoming quite popular, and demand is constantly growing. The same holds true as regards Bridesmaid. Brides are good in spots, some being extra fine, while other lots are of indifferent quality. In Meteors considerable culling has to be done, as many blooms are decidedly off color. There is little demand for Perles and Gontiers.

Carnations are very good, the supply in most sorts being about equal to demand, with the latter increasing daily. Harrisii and callas are in, the former meeting a fairly brisk demand, while the latter move slowly. There is a brisk demand for orchids (cattleyas), which is mainly supplied from out of town points.

No advance price lists for Thanksgiving Day have come to hand. Wholesale men as a rule are very conservative, and to judge by the tenor of their remarks regarding the aspects of trade at present,

there is small likelihood of advancing prices to any marked degree. The expected supply for any holiday has always been such an uncertain quantity that any figures based on "estimates" of supply and demand have nearly always been so wide of the mark that wholesale men have about made up their minds to stop guessing, so things will probably take their own course.

Dean Reynolds Hole arrived in Chicago November 21, going from here to White-water and Milwaukee. He will deliver one public lecture in Chicago next week.

At the meeting of the Florist Club last Thursday evening there was some discussion on cannas, and as a result Mr. F. Kanst will read a paper on cannas at the next meeting. The cost of producing good 4-inch geraniums was also discussed, and it was agreed that first-class plants could not be profitably grown at less than \$8 per 100. After adjournment the bowling club held a meeting and appointed a committee to draft by-laws and to arrange for regular weekly games. The bowlers then repaired to a nearby alley, and the board was decorated with several good scores—among them 223, 216, 213 and 209.

Mr. A. Dimmock was a recent visitor.

Toronto.

Entries for the chrysanthemum show have come along in great style and with favorable weather there will be a bigger show than we have had here yet. The show of cut flowers will be very large and there will be no trouble in getting them to the hall, but with cold weather there is a difficulty in bringing large plants. Hugh Graham, of Philadelphia, Nathan Smith & Son, Adrian, Mich., Wm. Scott, Buffalo, Pitcher & Manda, Short Hills and others are amongst the American exhibitors. E.

ENGLEWOOD, N. J.—Patrick H. Morris, florist and nurseryman, died on November 14. The business will be continued by Henry Morris.

TOPEKA, KANS.—A chrysanthemum show was held here under the auspices of one of the churches, most of the florists participating.

ATHENS, GA.—The Ladies' Garden Club held a chrysanthemum show here November 5-8. There was a large display in plants, flowers and vegetables, reflecting great credit on the ladies of the club. J. E. Jackson of Gainesville was the only florist exhibitor.

GALESBURG, ILL.—A chrysanthemum show was given at Pillsbury & Gesler's greenhouses for a local charity, opening November 15. The houses were beautifully arranged, and an elaborate arrangement of electric light added to their attractions in the evening. A corps of young ladies acted as attendants, selling flowers and escorting visitors around.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

SITUATION WANTED—By sober young florist, good grower of cut flowers and potted plants. Address F. VETTER, 26 Hickory St., Rochester, N. Y.

SITUATION WANTED—By a German florist; 12 years' experience around greenhouses. Good references. Address KANSAS, care Am. Florist.

SITUATION WANTED—By a practical seedman, nurseryman and florist competent to conduct any branch of business. Address O. care Am. Florist.

SITUATION WANTED—As foreman or manager by a first-class rose grower and all-round man; Scotch, married, sober and reliable; good references. Address C M, care American Florist.

SITUATION WANTED—Commercial place in east preferred, by single man; 7 years' experience, and recommendations unexcelled. Address D S, care Geo. A. Sutherland, 67 Bromfield St., Boston.

SITUATION WANTED—As foreman in commercial place, wholesale or retail; thoroughly experienced in roses, carnations, mums, etc., etc. Address by letter only. GEO. BEAL, 2159 N. Diamond St., Phila.

SITUATION WANTED—By a young man of Dutch nationality, in a large flower store, as a design maker. Fully experienced. Good references. Address ROSLIN CONSERVATORIES, South Framlingham, Mass.

SITUATION WANTED—By young florist, nine years' experience in most all branches, sober, reliable and not afraid to work; best of reference; between Allegheny Mts. and Mississippi River preferred. Address GROWER, care American Florist.

SITUATION WANTED—As florist's assistant, by a young woman who has given satisfaction in the arranging of funeral designs and floral decorations. References. In or about Philadelphia preferred. Address H T W, 412 Walnut St., Philadelphia, Pa.

SITUATION WANTED—By florist and gardener, first-class rose, carnation and violet grower, palms and ferns and general stock of greenhouse and outdoor plants; private or commercial; 18 years' experience, age 36, married, no family, English; good references. Address J 67 Madison St., Morristown, N. J.

WANTED—A few strong plants of *Swainsona alba*. VAUGHAN'S SEED STORE, Chicago.

WANTED—Office man and correspondent who is familiar with plant business. Give particulars to J. D. EISELE, Dreer's Nursery, Riverton N. J.

WANTED AT ONCE—Second-hand hot water boiler to heat 1200 square feet glass; also 4-inch pipe. Address W. P. RANSON, Junction City, Kan.

WANTED—Single man, American, rose and carnation grower, for San Antonio, Texas; wages \$25 and board; bring references. Apply VAUGHAN'S SEED STORE, Chicago.

FOR SALE CHEAP—Large second-hand florist's Ice Box, value about \$75. VAUGHAN'S SEED STORE, 88 State Street, Chicago.

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Inch, \$1.40; Column, \$14.00.
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No Special Position Guaranteed.

Discounts, 6 times, 5 per cent; 13 times, 10 per cent;
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No reduction made for large space.The Advertising Department of the AMERICAN
FLORIST is for Florists, Seedsmen, and dealers in
wares pertaining to those lines ONLY. Please to
remember it.

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

Advertisements must reach us by Wednesday to se-
cure insertion in the issue for the following Saturday.

Address THE AMERICAN FLORIST CO., Chicago.

FROM THE newspaper clippings received we judge that nearly every hamlet in the country had a chrysanthemum show of some sort this year. In most of the smaller places these were held under the auspices of one of the local churches or charitable organizations, and were more nearly church fairs with chrysanthemum displays as a leading feature than regular exhibitions. But this would indicate that the popularity of the Queen of Autumn has extended to every nook and corner of the country and that her hold upon the people is firmer than ever. The anticipated "reaction" has surely not yet arrived.

BULLETIN No. 107 of the North Carolina Experiment Station, Raleigh, is devoted to the subject of "Flowering bulbs in North Carolina and their propagation for florists' use." The bulletin treats specially of the commercial culture of amaryllis, freesias, galtonias, gladiolus, Roman hyacinths, lilies, narcissus, tuberoses and tulips, and includes engravings of the leading bulbs from specimens grown at the station.

THE published statement of the receipts and disbursements of the exhibition at Oswego, N. Y. is as follows: Receipts, \$47.59; disbursements, \$10.08; balance turned over to city hospital, \$37.51. The managers of exhibitions in the larger cities would be very happy if they could keep expenses down to less than one-fourth of the receipts.

THE GRAPE CULTURIST, by A. S. Fuller, first published thirty years ago, has been reissued in a new edition, enlarged up to date. Since its first appearance this has been the standard work on American grapes, and the new edition will no doubt add to its usefulness (Orange Judd Co., New York).

H. J. R.—Your inquiries would require many issues of the FLORIST to answer fully in detail. You will find articles in every issue bearing upon one or more of the subjects you name, and we refer you to them.

CHARLESTON, S. C.—Mr. Samuel Webb died October 16. He had been in the business in this city about 40 years, during which time he always enjoyed the highest regards of its citizens. At the time of his death he had the care of the city parks as well as the majority of the largest private gardens. He had a large nursery at 10 and 12 Friend street, where he did a large business.

BENTON HARBOR, MICH.—A chrysanthemum show and supper was held here by one of the churches. Although the greater part of the exhibit came from amateurs some excellent flowers were shown, and the exhibition was a financial success.

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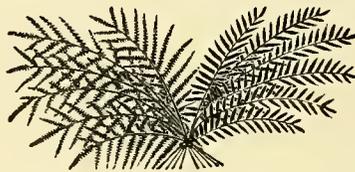
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NEWBURYPORT, MASS.—A fine chrysanthemum show was given here by J. J. Comley. In addition to Mr. Comley's display, which formed the greater part of the show, some nice displays were made by various amateurs, for which Mr. Comley offered prizes.

SAVANNAH, GA.—A chrysanthemum show was given here for the benefit of the local orphan asylums. A. C. Oelschig made the largest display; his exhibits were very fine, both plants and cut blooms. Quite an interesting feature was the competition of the school children, to whom Mr. Oelschig gave plants last spring. There were also some amateur exhibits.

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" Cusin, Perle.....	2.00@ 3.00
" Mermet, Bride, Bridesmaid.....	2.00@ 4.00
" Meteor.....	2.00@ 6.00
Carnations.....	.75@ 1.00
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Chrysanthemums.....	6.00@ 35.00
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Smlax.....	8.00@10.00
Asparagus.....	35.00
Adiantum.....	1.00
Cattleyas.....	35.00

BOSTON, Nov. 20.

Rosea, ordinary.....	1.00@ 3.40
" Extra, Mermeta, Brides.....	5.00@ 8.00
" " Meteors, Bridesmaids.....	5.00@ 8.00
" Beauty.....	6.00@25.00
Carnations.....	1.00@ 1.50
" Daybreak.....	1.50@ 2.00
Chrysanthemums.....	4.00@25.00
Valley.....	3.00@ 4.00
Romans.....	3.00
Paper white narcissus.....	4.00
Violets.....	.50@ .75
Adiantum.....	.75@ 1.00
Smlax.....	10.00@15.00
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PHILADELPHIA, Nov. 20.

Rosea, small.....	2.00
" large teas.....	3.00@ 4.00
" Beauties.....	16.00@25.00
Carnations.....	.75@ 1.00
Valley.....	4.00
Smlax.....	12.00@15.00
Asparagus.....	35.00@50.00
Violeta, double.....	.50@ .75
Cattleyas.....	35.00
Cypripedium.....	12.00@15.00
Chrysanthemums, common.....	2.00@ 8.00
Chrysanthemums, select.....	12.00@15.00
Bouvardia.....	1.00
Adiantum.....	.75@ 1.00
Smlax.....	12.00@15.00

CHICAGO, Nov. 22.

Rosea, Beauty.....	8.00@25.00
" Testout, Meteor, Kaiserin.....	4.00
" Bridesmaids, La France, Albany.....	3.00
" Wootton, Mermeta.....	2.00@ 3.00
" Perle, Nipheton.....	2.00@ 2.50
" Gontiers.....	1.00@ 2.00
Carnations, common.....	.75@ 1.00
" fancy.....	1.50
Violets.....	1.00@1.50
Valley.....	4.00
Romans.....	12.00
Callas.....	10.00
Chrysanthemums.....	2.00@ 15.00
Orchids, cattleyas.....	40.00@50.00
Mignonette.....	2.00@ 3.00

ST. LOUIS, Nov. 21.

Rosea, Perle, Wootton.....	2.00@ 3.00
" Bride, Mermet, Albany, La France.....	3.00@ 4.00
" Kaiserin.....	4.00@ 5.00
" Bridesmaid, Meteors.....	3.00@ 4.00
" Beauty.....	8.00@20.00
Smlax.....	15.00@18.00
Violets, single, per 100.....	25c
Carnations, long.....	1.00
" short.....	.50

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Cucumber Seed.

TO THE AM. FLORIST:—I note in the "Chrysanthemum number" of the AMERICAN FLORIST of the 10th inst. the article referring to 12c. cucumber seeds, and as the statement is misleading and may be construed by the seed trade in general as an indication of existing values in the cucumber seed line I desire to say that no one who makes the growing of the many varieties of cucumber a specialty can possibly sell at any such a ridiculous price without entailing a hard cash loss ranging from \$3 to \$5 per 100 pounds, and although I am personally acquainted with the several different vine seed growers who make the business a specialty in this and other sections I know of no one who would be idiotic to such an extent as to offer seed at any such loss.

The seed you refer to as being offered at 12c. is beyond any question of dispute "tramp seed"—a crop that has been grown by some farmer who, having been unable to dispose of his crop, from one or more of a number of causes, to the specialist to whom he expected to sell the same at the time he planted the crop, now offers the product at any price he can procure for it.

There are a number of lots of cucumber seed of this character in this vicinity that can be obtained at 8c. to 10c. per pound, or even at a less figure if these prices can not be obtained. In some cases the seed has been rejected by the specialists located here for obvious reasons; it may have been improperly cured, possibly injured in one of the different processes through which it has to pass, and again it may have grown in too close proximity to other varieties, rendering the seed unfit for the use of any seedsman who values his reputation. Besides these there are some lots of cucumber seeds that were grown here in 1893 for a certain house that has since retired from the business and to whom the seed referred to was either never delivered, or if ever delivered was returned to the present holders. Under the system of numbering each variety and not naming same, adopted by the house referred to, the present holders of these stocks are absolutely ignorant as to the variety they have; for instance, they may have what is known to them as a white spine, but whether the variety is Early Arlington or Extra Long White Spine they assuredly do not know, and the same condition of uncertainty also applies to the several early and pickling varieties. Any seedsman who has the courage to buy stocks grown and offered under such conditions as above described certainly assumes more risk than my experience teaches me they are willing to take on.

The article as it appears in your issue of the 10th inst. is therefore misleading, for it fails to explain how such an unreasonable price as 12c. per pound for cucumber seed could possibly be made.

Before publishing such articles in your columns it seems to me to be no more than just to the seed trade in general as well as to those who devote their time, energy and money to the growing of any line of specialties, to first ascertain the conditions attached to the matter under consideration for publication before allowing it to appear in your paper.

Write us without delay, stating quantities required, for special low quotations on following plants unequalled in quality and price.

Adiantum Farleyense, Adiantum cuneatum, Nephrolepis exaltata plumosa, Pteris Smithae, Mixed Ferns and Selaginellas in variety, Palms including the beautiful Pritchardia (Licuala) grandis, Dracaenas and Foliage Plants, Araucaria glauca, Pitcher Plants, Ficus elastica, Genistas, Hardy Roses on their own roots, Orchids and Cyripediums, of which we carry the largest stock in the country.

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26 Barclay Street. 146-48 W. Washington St.

AND A GENERAL LINE OF FLOWER SEEDS, GARDEN TOOLS, ETC.

In this case the wholesale seed trade have mostly made their purchases at prices ranging from 17c. to 25c. per pound. They are obliged to contend with the idea suggested that cucumber seed of a merchantable quality can be obtained at 12c. per pound, which is erroneous and unfair to both the wholesaler and the grower, and injurious to the trade.

Yours truly,

FRANK T. EMERSON.

Waterloo, Neb., Nov. 13, 1894.

[It is a wide open secret that the vine seed crop of 1893 was enormous and that reliable stocks of several leading kinds could be bought as late as April 1894 at 10 and 11 cents per pound in 1,000 pound lots; it would not therefore appear strange that 10,000 lots of a few leaders would still sell as low as 12 cents, notwithstanding any full general line of varieties might cost 17 to 25 cents. The readers of our seed trade column understand these conditions we think.—Ed.]

BOSTON.—Bulb trade has been generally satisfactory this season and stocks were well cleaned up before the hard freeze came on. The thaw and open weather which may be depended upon to intervene before settled winter conditions prevail will undoubtedly give an opportunity to work off the last odds and ends and thus wind up the season in better shape than usual. The sudden and unexpected severe weather caught many market gardeners badly and thousands upon thousands of dollars worth of celery and beets were frozen up all through this section, and especially through Worcester county, where even the potatoes had not been dug. The only complaint one hears in the seed trade is the difficulty in collecting; farmers' accounts are bad, and florists' worse if anything. There are accounts on the books of every dealer which would be sold gladly at 20% on the dollar. The movement on foot in the American Seed Trade Association wherein it is proposed to adopt a uniform discount of 10% to be allowed on all sales of vegetable and flower seeds made and paid for before March 1 does not meet

with much enthusiasm here. Many of the seedsmen think they do not get over 10% per cent for themselves when they get it all, and they do not relish the idea of giving up all the cream to the customer. Auratum lilies from Japan came in at the same time as the native stock. Both are of excellent quality.

IT IS REPORTED that the M. B. Faxon Co. have sold out their seed business at Saugus, Mass., to the J. T. Lovett Co. of Little Silver, N. J.

Plants AND Cuttings.

ACHYRANTHES, ALTERNANTHERA,
COLEUS, CARNATIONS,
CUPHEA, GERANIUMS,
AND SOME OTHER STOCK.

We have no price list. Will quote prices here when ready to ship, or on application.

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Orders booked now for fresh imported stems, fronds and roots cut off; best long-leaved variety. Delivery Feb. 1st to April. Cultivated Cycas always on hand, rooted and well established.

Lil. Auratum, Spec. Rubrum and Album, Etc.
Iris Kämpferi, in 100 choice varieties.
Japanese Maples, in best varieties.
Camellias, Pæonies, Tree Ferns, Raphis, Etc.
Araucaria excelsa, choice cultivated stock at lowest prices.
For general Japanese stock apply to

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303 to 312 Wayne St., SAN FRANCISCO, CAL.

You will benefit the American Florist by mentioning it every time you write an advertiser in these columns.

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By M. A. HUNT.

A PRACTICAL TREATISE ON
THE CULTIVATION OF THE ROSE,
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Well Wound, made out of strictly prime stock.

Medium Heavy Grade.....\$3.50 per 100 yards; \$30.00 per 1000 yards
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Orders booked up to Dec. 1 for Cycas Revoluta Stems. Send for our new and interesting Catalogue '94-'95.

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Oldest and most reliable import house.

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CINERARIAS.

We have a few more of these superior plants. Those wanting some will do well to send to us.

2 1/4-inch, \$2.50 per 100; 3-inch, \$4.00.

PELARGONIUMS, 2 1/4-inch. \$3.00 per 100

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CARNATIONS, mixed lot of leading sorts, large plants. 5.00 per 100

S. WHITTON & SONS, Wholesale Florists,

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Two Year Old Roses.

FINE LARGE PLANTS. Per 100
BRIDE and MERMET..... \$8.00
PERLE and SUNSET..... 9.00
GONTIER and SOUPERT..... 8.00
LA FRANCE and WHITE LA FRANCE..... 8.50
And all other standard varieties. Send list for prices. Also immense and fine line 2 1/2-inch pot Roses. Finest Rex Begonias, 3 1/2 in. pots, \$5.00 per 100.
TERMS CASH WITH ORDER.

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5,000 General Jacqueminot ROSE PLANTS,

on their own roots, well branched, 2 1/2 to 3 1/2 feet high. \$10.00 per 100.

Sample of eight for \$1.00.

JORDAN FLORAL CO.,

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ROSES.

Clean, healthy stock.

MERMETS, BRIDES, MME. WATTEVILLE,

Strong plants, from 3-inch pots, \$5 per 100.

BRIDESMAIDS, METEORS,

Strong plants. 3-inch pots, \$6 per 100.

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ROOTED Verbena CUTTINGS

Ready for Immediate Shipment.

They are perfectly healthy, and the best named varieties.

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WANTED.

Offers of nursery-grown TREES and SHRUBBERY, at low prices; trees to be from one to three inches in diameter; shrubs to be bushy, and not less than three feet high. Give lists of kinds, sizes and prices.

Address PARKS, care American Florist, Chicago.

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

St. Paul, Minn.

L. L. May & Co. had a chrysanthemum exhibit in their new store on the 10th inst., and A. S. Swanson one in the Washburn building on East 5th street from November 14 to 17. Both displays were very creditable and emphasized the regret that all of our growers have not united their stock and made a grand display. Our florists seem to keep pace with the times in the way of growing mums, as many of the Chicago prize winners have worthy representatives here. The Queen, Major Bonnaffon, Viviani-Morel, Hicks Arnold, Mrs. E. G. Hill, Pitcher & Manda, Marie Louise, Mrs. Gov. Fifer and Pres. W. R. Smith have all been grown here this year, showing fine large blooms, and all will be planted extensively another season. FELIX.

Des Moines, Iowa.

The florists of this city have organized a florists' club, with Peter Lambert for president, J. F. Marshall secretary, and W. L. Morris treasurer. At the last meeting the members voted unanimously in favor of making preparations for a grand chrysanthemum show next fall. A very satisfactory show was given here recently by one of the local churches, at which the florists were asked to assist. W. L. Morris occupied a table with a fine display of big "mums" grown to single stem, and vases of assorted flowers. J. F. Marshall occupied one corner of the hall with a table of cut chrysanthemums, roses and carnations, and a large group of palms, flowering plants, etc. The show was held in Livingston's new seed store, 710-712 Locust street, which Mr. Livingston kindly lent for the purpose.

J. F. MARSHALL.

STEVENS POINT, Wis.—Charles Helm has added 30 feet in length to each of his greenhouses.

PANSIES.

The Jennings Strain of large flowering and fancy Pansies ready October 15th and on to May 1st.

THE JENNINGS STRAIN ALWAYS SATISFACTORY.

Price free by mail 60 cts. per 100; by express 1000, \$5.00; 5000, \$20; 10000, \$35. All colors mixed.

Pansy seed, finest mixed, 2500 seed \$1.
" yellow black eye, 2500 seed \$1.

E. B. JENNINGS, Wholesale Pansy Grower,
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PANSY SEED.

NEW CROP NOW READY. Very fine mixture of large flowering varieties and choice colors, especially selected for florists' use. 1 oz. \$3.00.

NEW GIANT PRIZE PANSY, finest strain in the market. 1 oz. \$5 00.

Low prices on Lillium Harrisii, Longiflorum, Roman Hyacinths, Lily of the Valley, etc.
Special low prices on Rustic Baskets.

HERRMANN'S SEED STORE,

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Pansy Plants.

EXTRA FINE STRAIN.

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Superior forcing stock. Strong field-grown, budded low on Manetti. Extra heavy tops and roots. Better than imported; can depend on their reaching you in first-class condition. Our exhibit at Atlantic City received Honorable mention.

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In H. P.'s: Gen. Jacq., P. Neyron, Mrs. Laing, Magna Charta, Ulrich Brunner, Baron Bonstettin, A. Colomb, Jno. Hopper, A. Diesbach, M. P. Wilder, Earl of Dufferin, Eugene Furst, Silver Queen, Coq. des Blanchés, Prince Camille, and other leading varieties.

\$7.00 PER 100; \$65.00 PER 1000.

A few thousand well rooted, fine plants, just too light for our first grade; mainly Jacq., Neyron, Persian Yellow, Wilder, Colomb, Prince Camille and Bonstettin.

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in commerce. We have them in all sizes, and Prices to suit.

CERTIFICATE OF MERIT was awarded for this sterling Decorative Plant at the convention held at Atlantic City, August, 1894. Send for price list.

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ORCHIDS,

Roses,

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ORCHIDS OUR SPECIALTY.

The Best and Largest Stock in the World. New & Rare Foliage & Flowering Plants. A grand selection for Stove, Greenhouse and Conservatory.

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LATANIA BORBONICA, from 2-inch

pots, 1 year old, fine plants,
\$4 per 100; \$35 per 1000, CASH.

Must sell. Cold weather no hindrance to shipping.

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CHRYSANTHEMUMS.

The following set of eight extra choice varieties will be sent out by us the coming season. They are all of sterling merit, possessing all the qualities constituting a first-class Chrysanthemum for florists' use, having fine, large flowers on good, stiff stems, with foliage well up to the flower.

J. H. TROY, very early white incurving Japanese of fine form, good size and substance, first-class shipper. Ready for cutting October 5th to 9th. Flowers lasted on stems in fine condition six weeks. Certificate National Chrysanthemum Society of America, New York.

J. E. LAGER, very early yellow reflexed Japanese of good size, color and substance. Foliage and stem good; fine shipper. Ready for cutting October 5th to 9th. Flowers lasted on stems in fine condition six weeks. Certificate National Chrysanthemum Society of America, New York.

W. B. DINSMORE, Japanese incurved, golden yellow. Flowers well built and very attractive. Strong stem, with good foliage and great substance. Grand for shipping. One of our best.

MRS. W. A. BRYANT, fine chrome yellow, magnificent flower, mid-season. Broad petals, strong grower. Awarded First Prize at Boston.

F. L. ATKINS, mid-season. Japanese reflexed, large, pearly white flower, having broad, long petals, forming a perfect ball. Vigorous grower, strong stem, furnished with foliage up to the flower. A grand flower and good shipper.

MRS. HENRY ROBINSON, a perfect form of the Queen of England type, of exceptional merit, large and well finished. An early white blooming with us October 5th. Fine substance and very lasting.

MISS GEORGIANNA PITCHER, yellow variety that will make a reputation for itself. Foliage and stem Al. dwarf habit, flower incurved, good size, fine color, of great substance. Magnificent variety.

Price, 50c. each; \$5.00 per dozen; \$35.00 per 100; \$250.00 per 1000. March 1st, 1895 delivery.

AWARDED FIRST PRIZE IN BOSTON FOR TWELVE VARIETIES NAMED INTRODUCTIONS OF THE CURRENT YEAR.

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Any way you want them, direct from the sand or as transplanted plants.

Varieties that PAY to grow, and Cuttings or Plants that WILL grow.

Better write to me, I'll do my share toward giving you good value for your money.

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YOUR ENEMIES,
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C. H. JOOSTEN, 3 Coenties Slip, New York.

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Very large plants, 2 to 5 feet high, in 6 to 10-inch pots.

NICE RUBBERS—12 to 18 inches, 5-inch pots, at a bargain. Write for prices.

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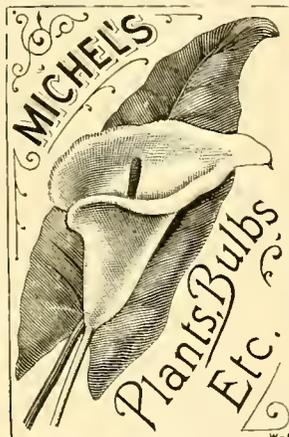
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Seeds, Bulbs, Plants (Wholesale only), 1025 Arch St.



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NEW AND TESTED CARNATIONS

OUR SPECIALTY.

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MRS. E. REYNOLDS	\$8.00 per 100
BUTTERCUP	6.00 "
WILDER, HINZE's and others.	5.00 "
CYCLAMEN, 3 1/2-inch pots.	6.00 "
GENISTAS, 5-in. pots, nice stocky plants	12.00 "
SMILAX, 2 1/2-inch pots.	\$12.00 per 1000

Address **J. G. BURROW, Fishkill, N. Y.**

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Sweetbrier Carnation.

\$15.00 PER 100.

Other varieties on application.

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Strong plants in cold-frames.

Blanche, Richmond, Dawn, Mrs. Hitt, Mrs. Reynolds, Lamborn, Garfield, Golden Gate, White Wings, Purdue, Spartan, Attraction, Nellie Lewis, White Dove, Louise Porsch, \$4.00 per 100.

MARIE LOUISE VIOLETS, from 2-inch pots, \$2.50 per 100; \$20.00 per 1000.

TERMS CASH WITH ORDER.

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New Carnations our Specialty

FRED. DORNER & SON, FLORISTS,

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ROOTED CUTTINGS

now ready, of desirable kinds for EARLY SUMMER BLOOMING.

Seedlings, Novelties and Standard sorts in season.

C. J. PENNOCK,
The Pines. KENNETT SQUARE, Chester Co., PA.

CARNATIONS.

Rooted Cuttings, Young Plants, Field-Grown Plants in season. Send for prices.

Geo. Hancock & Son, Grand Haven, Mich.

News Notes.

BRIGHTON, N. Y.—J. Frank Morris, nurseryman, has made an assignment to J. D. C. Rumsey.

NORTH WEARE, N. H.—J. G. Herrick & Son have added another plant house to their establishment.

QUINCY, ILL.—A chrysanthemum show was held here by one of the churches. It was a very great success, and drew a crowd of visitors.

MIDDLETOWN, N. Y.—A chrysanthemum show was held here by the Congregational Church. The attendance was large in spite of bad weather.

VICTORIA, B. C.—A flower show was given here by one of the Sunday schools. The plants shown were very creditable. Mr. Geo. Fraser was the judge.

SHELBYVILLE, ILL.—Mrs. E. A. Van Dyke, the florist, died, last June. Mr. Van Dyke has sold the business to Mrs. E. H. Martin, who will continue it.

LARCHMONT, N. Y.—W. B. Edwards & Bro. late of Pittsfield, Mass., are about to start in business at Cloverley Farm here, raising forced vegetables and flowers.

GRAND RAPIDS, MICH.—Schmidt Bros. Floral Park, is the title of a new establishment on Park avenue. Two houses have been erected and others will be added.

SCHENECTADY, N. Y.—J. E. Felthousen held a chrysanthemum show here the second week in November. It was an excellent display, and was visited by large numbers of people. No admission fee was charged.

OWATONNA, MINN.—The Owatonna Floral Association held its third annual chrysanthemum show November 2. There was a good exhibition, and entertaining speeches on floral subjects were made by several members of the society.

SALT LAKE CITY, UTAH.—The Utah Nursery Co. made an assignment November 12 with liabilities amounting to about \$115,000; assets not stated, though the company claims to have assets far in excess of liabilities. Melville B. Sowles is assignee. The heaviest creditor is the firm of W. & F. Smith, Geneva, N. Y., who hold notes and mortgage, which with interest amount to \$39,210.44. Notes and mortgage held by Wm. Smith individually amount with interest to \$21,511.13. Other heavy creditors are A. Keysor, note and mortgage, with interest, \$33,175 00; W. S. McCormick, note and interest \$16,391.15.

OXFORD, OHIO.—The ladies of the Presbyterian church here have been holding a chrysanthemum exhibition and with great success. For a small town like this to attempt such an undertaking is no easy task, yet it is evident that it was worth the venture. Next year undoubtedly much better results will be achieved. A noticeable feature was the large number of seedlings exhibited; some of them remarkably pretty. A large group of miscellaneous plants staged by the local florist R. M. Walker was very attractive. A collection of 12 vases of specimen blooms of leading varieties from the same exhibitor was however the leading feature. Entertainments were given each evening of the exhibition.

PARTIAL LIST OF STOCK PLANTS OF CHRYSANTHEMUMS.

	EACH.	PER DOZ.
Mrs. E. G. Hill, best early pink.....	20c.	\$2.00
Yellow Queen, best early yellow.....	30c.	3.00
Mrs. Craige Lippincott, medium early yellow, extra fine.....	20c.	2.00
E. Dailedouze, mid-season to late, best yellow up to date.....	60c.	6.00
Mutual Friend, pure white, graceful in form, a general favorite.....	50c.	5.00
Minerva, a very fine medium early yellow.....	5 c.	5.00
Marie Louise, white, early and large.....	50c.	5.00
Mrs. J. Geo IIs, pure white, very large, late.....	60c.	6.00
Major Bonnaffon, incurved, beautiful in form, "Yellow Ivory".....	50c.	5.00
Mayflower, very large, creamy white, beautiful in form.....	50c.	5.00
H. L. Sunderbruch, early yellow, extra fine.....	50c.	5.00
Erminilda, one of the very best mid-season pinks. Took first premium for vase of 50 over all other pinks, at Philadelphia, 1894.....		\$25.00 per 100

And many others. EDWIN LONSDALE, Chestnut Hill, Philadelphia.

Chrysanthemum Stock Plants.

Extra strong, field-grown clumps, in perfect health—not bench-grown stock exhausted by over feeding which seldom give satisfaction, as they produce weak, sickly plants.

A. A. Sturges, Ada H. Leroy, Eiderdown, J. H. Cliffe, Joey Hill, L'Enfant des Deux Mondes, Mabel Simpkins, M. B. Spaulding, Mrs. H. F. Spaulding, Niveus, Pres. W. R. Smith, Snowflake, Thos. H. Brown, Vivian-Morel, Wanless, 25 cents each.

Alba Venus, Chas. L. Mitchell, Cullingfordii, Eda Prass, Emily Ladenburg, Exquisite, Golden Wedding, Harry May, Hicks-Arnold, Ivory, Kioto, L. Canning, Lillian B. Bird, Louis Boehmer, Miles H. Wheeler, Minnie Wanamaker, Mrs. F. L. Ames, Mrs. Leslie Ward, Mrs. W. H. Trotter, Prince of Chrysanthemums, Roslyn, Turban, Walter Hunnewell, W. G. Newitt, William Falconer, W. N. Rudd, 20 cents each.

Ada Spaulding, Adolphe, Autocrat, Judge Hoitt, Sun God, 15 cents.

THE LOVETT COMPANY, Little Silver, N. J.

STOCK PLANTS CHRYSANTHEMUMS

Niveus, Queen, Ivory, Mrs. Jones, Mrs. Craig, Domination, E. Dailedouze, Golden Wedding, Lincoln, Mrs. C. Lippincott, Chas. Davis, Golden Gate, Mrs. E. G. Hill, Pres. Smith, Good Gracious, Vivian-Morel, Ed. Hatch, H. Balsley, W. N. Rudd, Beau Ideal, Inter Ocean, Geo. W. Childs, Joey Hill, R. McInnes, and other standard sorts. 20c. each; \$2 doz.; \$15 per 100.

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150,000 of all the leading varieties.

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50,000 of leading varieties.

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Grevillea Robusta.

Strong 2½-inch pots, 50c. per dozen;
\$3.00 per hundred.

NATHAN SMITH & SON,
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NEW CHRYSANTHEMUMS.

Now Ready for Delivery.

A. H. Fewkes, Baron Hirsch, Charles Davis, Challenge, E. Dailedouze, G. S. Conover, G. Bramhall, Golden Hair, Heron's Plume, Inter Ocean, L'Enfant des Deux Mondes, Lady Playfair, Mrs. E. G. Hill, Major Bonnaffon, Mutual Friend, Mrs. J. George IIs, Marion Henderson, Pride of California, Pitcher & Manda, Prairie Rose, Robt. M. Gray, Sophia Sievers, Wm. Simpson, Yellow Queen, Maud Dean.

12 plants by mail for \$1.00. Cash with order.

MEREDITH B. LITTLE, Glens Falls, N. Y.

E. G. HILL & CO.,

Wholesale Florists

RICHMOND, INDIANA.

Mention American Florist.

CHRYSANTHEMUMS.

Stock plants from bench.

Queen, 15 cts. each. Lincoln, Mrs. R. Craig, Madraa

Harry Balsley, Ivory, Mrs. Craige Lippincott, 12c. each.

A. T. JACKSON,
Station X, CHICAGO.



YELLOW QUEEN—Best Early Yellow, strong plants.

Chrysanthemums.

Stock Plants for Florists.

EXTRA STRONG BENCH GROWN, EQUAL TO 6-INCH POT GROWN.

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Orders booked for Rooted Cuttings of above varieties.

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- Minerva, Autumn Eve, H. L. Sunderbruch and Bessie Cummtogs, 50c. each; \$5.00 per dozen.

The plants are dug from bench after having bloomed. Strong plants. Cash with order.

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The finest early variety ever introduced. (See this paper Oct. 13, page 245.)

MAYFLOWER, white, extra fine mid-season. MINERVA, clear yellow, extra fine mid-season. These two last named are now selling at a premium over all others in New York market. Good Stock Plants of the above, 50 Cents each.

10 per cent. discount for cash for all orders over \$2. All the best varieties at reasonable prices. **JOHN N. MAY, Summit, New Jersey.**

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120 VARIETIES. 120

Stock Plants of Chrysanthemums.

Send your list of wants for prices. **THE HIGHLAND FLORAL CO., DAYTON, OHIO.**

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Prize winners at the Boston Chrysanthemum Show, 1894.

- Eugene Dailedouze, Mrs. Jerome Jones, Inter Ocean, Mrs. E. G. Hill, The Queen, Mrs. J. George IIs, Major Bonnaffon, Vivian-Morel, Mutual Friend, H. L. Sunderbruch, Beau Ideal, Maud Dean, Mrs T. H Spaulding.

Strong plants by mail, 20 cents each, or the collection of 14 varieties, \$2.00 by mail. Ivory, \$5.00 per 100 postpaid. All warranted true to name. Cash with orders.

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- IVORY..... Each 15c. Dozen \$1.50
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- BREEMAN..... 10c. 1.00

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Stock plants, true to name, from bench or pots, flowers cut.

- Mrs. E. G. Hill, Queen, Niveus and Golden Wedding, 15 cts. each. Miss K. Brown, Ivory, Wanamaker, Pres. W. R. Smith, Mrs. R. Craig, J. H. Taylor, Whilldin, Mrs. E. D. Adams, Lincoln, Widener, Newitt, Madeira, Balsley, Domination, and Vivian-Morel, at 10 cts. each. Order soon, as no surplus stock will be saved unless sold.

ROOTED CUTTINGS of first four, \$3.00 per 100; of others, \$2.50.

Rooted Cuttings of Challenge, Marie Louise, Eugene Dailedouze, Inter Ocean, Mrs. Craig Lippincott, \$5.00 per 100. No order for less than \$2.00 desired. Cash with order unless for large lots from known purchasers.

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ACME FOOD FOR

Vines, Plants, Fruit Trees and Flowers.

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HERMANN RÖLKER, 218 Fulton Street, NEW YORK

News Notes.

TAUNTON, MASS.—Clarence A. Briggs retires from partnership with Mrs. Jennie L. Briggs who will hereafter conduct the business alone.

SELMA, ALA.—A chrysanthemum show was held here by one of the church societies. A number of premiums were awarded, calling out brisk competition.

CHARLOTTE, N. C.—A successful chrysanthemum show was held here November 4-5. The exhibits were almost entirely amateur, but were well staged and attractive.

CLEVELAND, O.—The Gordon Park Greenhouses gave a chrysanthemum show the first week in November at their establishment. The place was in fine order, and the floral display very fine.

BIRMINGHAM, ALA.—The chrysanthemum show held here November 9-10 by the Ladies Aid Society resulted very successfully. Prizes were awarded both for plants and cut flowers in several classes.

RALEIGH, N. C.—The chrysanthemum show held here by the King's Daughters was beautifully arranged, and drew a crowd of guests. Both plants and flowers were fine specimens of leading varieties.

DETROIT, MICH.—Fred Waltz, one of the oldest florists and nurserymen here, has recently retired. His florist business will be carried on at his old location by H. G. Flammer, and the nursery by Fred Waltz Jr.

OSWEGO, N. Y.—The show held here for the benefit of the local hospital brought out some excellent exhibits from Mrs. Palmer and Messrs. Workman and Northrup, as well as from private gardeners. Pitcher & Manda, Short Hills, N. J., were also exhibitors.

PRINCETON, N. J.—The sixth annual exhibition of chrysanthemums under the direction of Wm. G. McTear was held as usual in one of the large greenhouses during the week ending November 17. The attendance was very large and visitors were delighted with the beautiful and effective display.

LYNN, MASS.—For a town of its size Lynn is undoubtedly the hanner town in number of florists. It has been computed that there are eighty-seven individuals here who hang out their shingle as florists. The population of Lynn is about 65,000. Harry Corfield has opened a new flower store here.

DAVENPORT, IOWA.—The chrysanthemum show held here in Library Hall was very effective. The floor was laid out by J. T. Temple as a landscape garden, the exhibits being artistically grouped. Among the florists making exhibits were Mrs. Crow and Messrs. Bills, Dannacher, Temple and Green of Davenport, Knees of Moline, Ill., and Gaethje of Rock Island, Ill. There were also a number of exhibits from amateurs.

SIoux CITY, IOWA.—J. C. Rennison gave his annual chrysanthemum show here November 6 to 10. The show rooms were amply decorated with hunting and Japanese lanterns, and there was a fine display of decorative plants and cut flowers, irrespective of chrysanthemums, which were lavishly shown. The people of Sioux City look forward to Mr. Rennison's show as an annual social event, and it is very liberally patronized.



FANCY. DAGGER.

EVERGREEN CUT FERNS
ESPECIALLY FOR FLORISTS' USE.
\$1.25 per Thousand Ferns.
IN LOTS OF 5,000 AND UPWARDS, \$1.00 PER 1000. Ferns furnished the year round. Special attention given to supplying the Wholesale Trade. Write for prices.
BOUQUET GREEN For Holiday Trade, \$2.00 per barrel (thirty pounds); or \$6.00 per hundred pounds. Special reduction in express rates.
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CHRISTMAS TREES. American White Spruce, much better shape and color than the Blue Spruce, also Balsam Fir from 3 to 30 feet high. Special attention to supplying carload lots. Write for price list and terms.



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DYED ALL COLORS.

Prompt, first-class work. **R. H. COMEY, Camden, N. J.**
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BOXES

Made up, nailed or lock cornered; or material cut to size ready to be nailed up at destination.

Plant Stakes.

1/4, 5-16, 3/8, 1/2, 5/8, 3/4, and 7/8-inch square, cut to lengths wanted.

When asking prices state sizes of boxes or stakes and quantity wanted.

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LOCKLAND, OHIO.

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Manufacturers of

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Greenhouse Material,

LOUISVILLE, KY.

CUT PRICES. Last Call.

Buy at HEADQUARTERS and save jobbers' profits. Order quick.

HOLLY—Best Eastern, well berried, per case, \$2.50
HOLLY WREATHS—Best made . . . per 100, \$11.00
LAUREL WREATHING—Very heavy per 100 yds. \$5.00
LAUREL WREATHING—Medium . . per 100 yds. \$4.00
LAUREL TWIGS per bbl. \$2.00
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*Absolutely Reliable
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which may be set to operate at any temperature, and give any quantity of air desired for each degree temperature rises above desired point.

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can plants be overheated or chilled where they are used, as they make ventilating sash more sensitive to change in temperature than the most sensitive thermometer. **TRY THEM.**

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LINDENS, OAKS,**
in variety, of medium and large sizes. Estimates furnished.

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Our Holly is the Finest—Green leaves, bright red berries & plenty of them.
DELIVERED ON TIME. Send us your orders now and goods will be there when you want them.

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PREPARE FOR THE HOLIDAYS.

YOU WILL NEED

- Baskets in many shapes,
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23 & 25 N. 4th St., PHILADELPHIA, PA.
Send for Catalogue.



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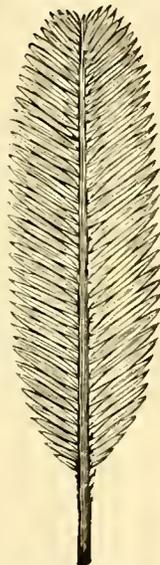
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Cycas Leaves.

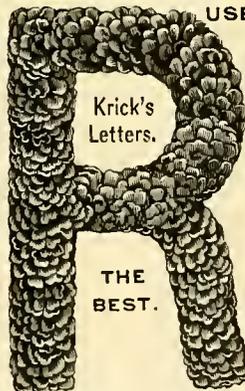
Our Natural

Sago Palm Leaves are especially prepared for us with the most artistic skill. They look like fresh cut fronds and keep their appearance with the proper care for months. We sell according to size and quality at

40c, 45c, 50c, 60c,
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Krick's Letters.

THE BEST.

USE W. C. KRICK'S

Florists' Letters, Etc.

Medal Awarded at the World's Fair.

And Highest Award Wherever Exhibited.

These Letters and Designs are made of the best Immortelles, wired on wood or metal frames, having holes drilled in them to insert toothpicks, by which they are fastened in the design. Give them a trial. You will find these goods to be superior to any in the market.

2-inch Letters, \$2.50 per 100.
Postage, 15 cts. per 100.

Letters, Emblems and Designs, send for catalogue and free sample.

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For sale by all Florists' Supply Dealers.



Florists' Pins.

GLASS HEADS.

IN BLACK, VIOLET

AND WHITE.

PRICES:

1 1 1/2, 2, 2 1/2, 3, 3 1/2, 4, 5, 6 inches.
50c. 75c. \$1.00, \$1.25, \$1.50, \$1.75, \$2.00, \$2.50, \$3.00 per 1000

A First-Class Certificate of Merit Awarded at Atlantic City Convention.

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Valuable Discovery of the 19th Century.

SILVER MEDAL AWARDED

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This preparation is a sure destroyer of the **Scale, Woolly Aphis** and **Insect Pests** of any and all descriptions. It may be as freely used in the conservatory, garden and greenhouse as in the orchard or vineyard. It is non-poisonous and harmless to vegetation when diluted and used according to directions. It mixes instantly with cold water in any proportion. It is **Safe, Sure** and **Cheap**. No fruit grower or florist should be without it.

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WORLD'S COLUMBIAN EXPOSITION
FOR SUPERIOR ENGRAVING
183 MONROE STREET
CHICAGO

The Chrysanthemum.

Get out, you poets, you who say
The melancholy days have come;
A thousand voices tell us of
The gay chrysanthemum.
—*Detroit Free Press.*

He had no overcoat to wear
Though chilly days had come,
But he'd slaved and saved almost enough
For one chrysanthemum.
—*Chicago Inter Ocean.*

Nature on a busy day
Made the flower fair;
Then being quickly called away,
Forgot to comb its hair.
—*Chicago Record.*

Nature knows her bus'ness,
Knows it true an' square;
Soon we'll have chrysanthemums
'Long with foot ball hair.
—*Washington Star.*

If there is a language of flowers, what does a 6-inch-across chrysanthemum say when it buttoholes a man?—*Philadelphia Times.*

Mrs. Hicks—"You haven't brought me any flowers to wear."
Mr. Hicks—"Why don't you save your mouey, and wear your poodle dog for a chrysanthemum?"
—*Puck.*

Chrysanthemum Names.

The varieties of chrysanthemums on exhibition were many. Most of them are named after the friends of florists who reared them, and if the men and women who bear the names look like the flowers they must be aristocratic in appearance, handsome or beautiful, and luxuriously languorous. It is sad to think that some very homely persons may be thus honored. A lady with red hair and most irregular features may be well enough beloved in some chrysanthemum nursery to have her full name conferred on a big drowsy flower with waxen white petals. A gentleman with a tomato-colored nose and whiskers which are periodically dyed may have a sufficient pull with somebody in the chrysanthemum business to have his cognomen distinguish a flower which has uniform color. The Mary Ann Jones and the John Thomas Smith chrysanthemums are not yet on the market, but if the use of full proper names goes on these and other familiar patronymics will eventually fill chrysanthemum catalogues.—*San Francisco Chronicle.*

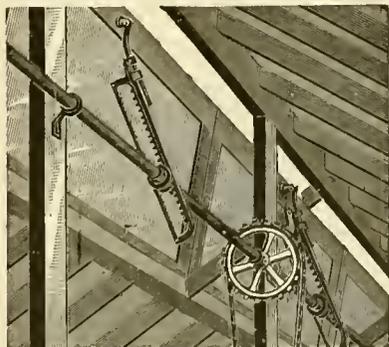
PROVIDENCE, R. I.—Fire was discovered in the greenhouses of Z. R. Corp on Prairie avenue on the morning of November 9, caused by an overheated pipe too close to the woodwork. Damage slight and confined principally to plants injured by smoke.

SEE HERE

BROTHER

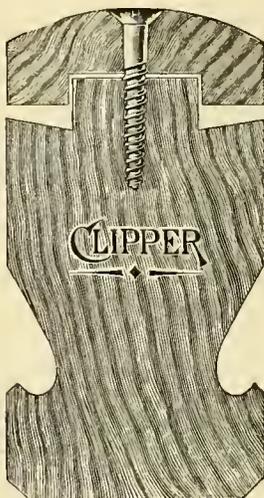
FLORIST!

Aren't you tired going through your houses two or three times a day year after year and lifting your ventilating sash one at a time and propping them up with sticks or pots, with a chance of having sash blown off and broken glass to pay for? If you are



We have got just the thing you need, the **NEWEST** and **BEST** thing out. "The New Departure" for about half the cost of the old style. Send for Descriptive Catalogue to

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Sirs:—My greenhouse material reached me to-day. I found everything all O. K. It is the finest stuff I've ever seen. I am more than pleased with it, and should I want anything more in your line you will surely get my order.
Yours truly,
C. F. W. GENTEMANN.

GUTTER MATERIAL, RIDGES, SASH, ETC.

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We desire to announce the dissolution of the firm of Sipfle Doppfel & Co., and to introduce to the trade its successor, The Syracuse Pottery Co., which will be under the management of William Doppfel and Conrad Breitschwerth. The business will be conducted as heretofore, except on a larger scale to meet the growing demand for our goods. We have accordingly enlarged our plant and capacity, and with unsurpassed facilities are now prepared to fill the largest order on short notice. Our latest improved machines are turning out the best and most serviceable flower pots in the market, and assuring you of our intention to lead in further improvements we solicit a continuance of your patronage in the belief that we can supply just what is needed at a price and in a manner satisfactory to all.
Send for price list and samples and we know you will give us an order.

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We will furnish you with prices on application, and will fill all orders promptly. Our Pots are excelled by none in the market.

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INSECTICIDE,

Death to Aphis, Red Spider, &c.
.....WRITE FOR PAMPHLET.....
- LOUISVILLE SPIRIT CURED TOBACCO CO., -
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Standard Flower Pots.

10 per cent. off for cash with order. Special discount on large orders. We carry a large stock on hand of good strong pots.

PRICE LIST OF STANDARD FLOWER POTS.

1 3/4-inch pots, per 1000	\$ 3.00	6-inch pots, per 1000	\$22.00
2 "	3.25	7 "	35.00
2 1/4 "	3.50	8 "	50.00
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3 "	5.00	10 "	10.00
3 1/2 "	7.25	11 "	15.00
4 "	9.00	12 "	20.00
5 "	13.80	14 "	40.00
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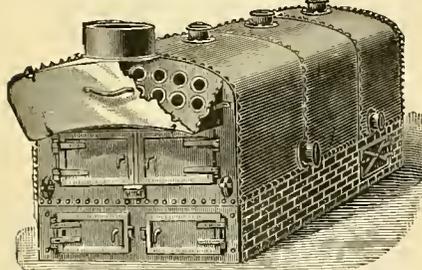
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Boilers made of the best of material. shell, firebox sheets and heads of steel, water space all around (front, sides and back). Write for information.



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All Steel. No Coils or Cast Iron Sections.
SEND FOR CATALOGUES.
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"GREEN HOUSE PUTTY"

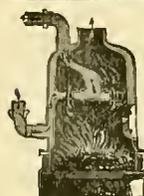
(TRADE MARK.)
To be applied with a bulb. The only putty made to work this way for greenhouse sash.
PUT UP IN 20 lb. CANS.
Has been used by florists in this city for years. Try it and you will use no other.
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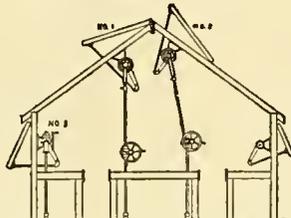
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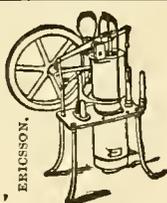
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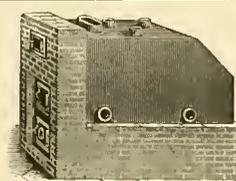
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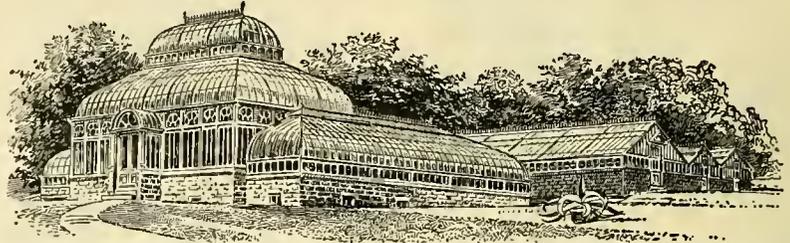
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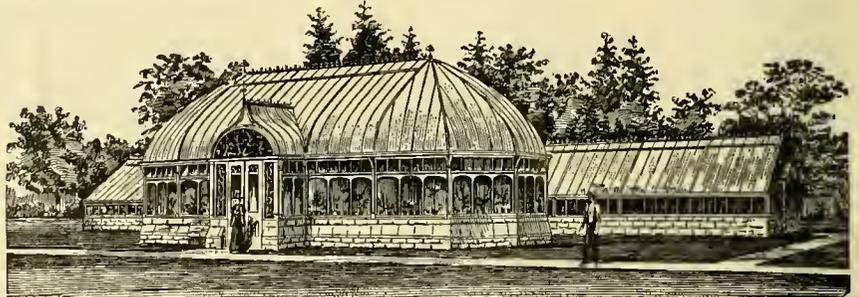
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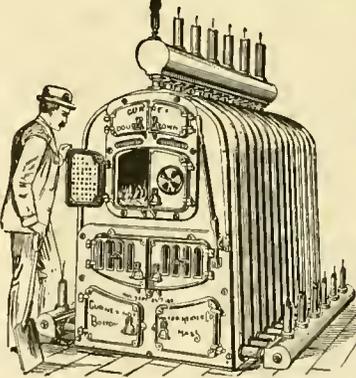
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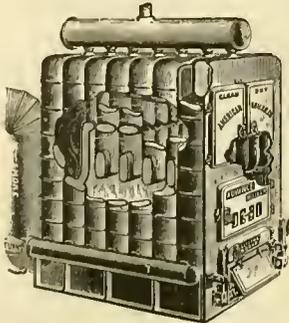
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Vol. X. CHICAGO AND NEW YORK, DECEMBER 1, 1894. No. 339

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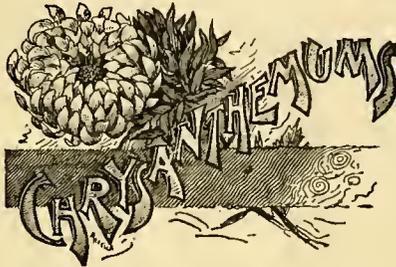
J. T. ANTHONY, Chicago, president; ROBERT KIFT, Philadelphia, vice-president; WM. J. STEWART, 67 Bromfield St., Boston, Mass., secretary.

The new officers to be installed Jan. 1, 1895, are: EDWIN LONSDALE, Chestnut Hill, Philadelphia, president; E. C. REINEMAN, Allegheny City, Pa., vice-president; WM. J. STEWART, Boston, secretary; H. B. BEATTY, Oil City, Pa., treasurer. The 11th annual meeting will be held at Pittsburg, Pa., August, 1895.

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IN THIS ISSUE we print an article on the arrangement of flowers, kindly prepared on request, by Mrs. J. J. Glessner, a Chicago lady who is a true lover of flowers and who has acted as one of the judges of floral arrangements at the last four or five of the Chicago shows. We believe her suggestions and recommendations, coming as they do from a lover and buyer of flowers, and one entirely free from any trade prejudices, but who has at the same time made the arrangement of flowers a study, are worthy of special consideration.



THE EXHIBITIONS.

Toronto.

Where every one does his level best for an undertaking with foresight and discretion success is pretty well assured, and certainly everybody connected with the late show held here, from the bottle filler to the president, worked with a will that could not fail but lead to the finest show on record in this country (for all that though we can all see where improvements can be introduced next year). The Pavilion was prettily decorated in German style by Mr. C. Arnold and the layout of the various cut flower tables, groups of chrysanthemums and groups of foliage struck every one as being the greatest of all the improvements over previous years; it was a new departure altogether from the old cut-and-dried right up and straight down style. The credit for this is due to Mr. Geo. Philip, who acted most efficiently as superintendent.

The day before the show opened, with the thermometer showing ten degrees of frost, making it very difficult to handle large or tender plants, consequently several specimen chrysanthemum plants owned by Exhibition Park and Mr. J. H. Dunlop were frozen stiff and rendered unfit for exhibition, many other plants were more or less injured, including some of the fine specimen ferns from Exhibition Park also. The time for staging plants had therefore to be extended and as the next day was a little milder exhibitors were able to get their plants in with less trouble and everything was staged before five o'clock on the Tuesday afternoon.

The plants taken altogether were better than last year and the cut bloom was decidedly better all round. The judges, Messrs. C. Swift (plants) and R. Flowerday (cut flowers and designs), had a difficult task, but it is safe to say that no two judges ever gave better satisfaction in Toronto or were better liked by all the boys than this team.

Mr. A. Macpherson, gardener to Col. Sweny, again this year captured first prizes for the best both 12 and 6 varieties, among these two lots the best were President W. R. Smith, Lilian B. Bird, Crystal Wave, an old white variety, not a large

flower but very pretty, E. G. Hill, W. H. Lincoln, always good, Good Gracious, A. G. Ramsay, etc. Mr. Houston (Central Prison) was second with twelve good plants, many of them of the newer kinds including Queen, L'Enfant des Deux Mondes, Laredo, G. W. Childs, Harry May, Hicks Arnold, etc. Manton Bros. showed some very healthy looking plants which took second in the six and first in the three specimen sections. In the section for one specimen, any variety, any sized pot, some of the finest plants in the show were set up including the two W. H. Lincoln mentioned above. Other noticeable specimens were Mrs. W. S. Kimball (not a good color) by Exhibition Park, G. W. Childs and Eugene Daille-douze by Central Prison, W. N. Rudd by J. H. Dunlop, Puritan, a very low grown broad specimen by Manton Bros., Mermaid (syn. V. H. Hallock) by F. Burfitt. The exhibit of single stem plants was very fine and attracted lots of attention. Mr. Laing of the Huron Nurseries took first in all the sections but one with splendidly grown plants and very large well colored blooms. Horticultural Gardens (A. Watkins) came in second in all sections but one with plants that were at perfection two weeks earlier; they had been very good and would have come in first in some places. Mr. A. Gilchrist was first for 12 plants of distinct varieties. In this class some of the best varieties shown were Golden Wedding, W. H. Lincoln, Irving Clarke, Niveus, Minnie Wan-amaker, Domination, Queen, Harry May, Pres. W. R. Smith, Dawn, O. P. Bassett. For 24 plants of twelve varieties in 6-inch pots there was good competition, Horticultural Gardens taking the first prize for a nice dwarf lot with good bloom, A. Gilchrist a close second.

The groups were a lovely feature of the show, the green of the palms and ferns seeming to relieve the eye. Those put up by Huron Nurseries, Horticultural Gardens, John Cotterill and Exhibition Park were especially good, others would have been better if the cold weather had not kept the tenderer plants at home.

Now I come to the cut bloom and one feels like expatiating on the beauties and good points of so many varieties enough to fill this issue of the FLORIST, but as ours is the latest of the shows and a good deal of expatiating has already been done I will spare your early show readers as much as possible. Messrs. Nathan Smith & Son put up a magnificent lot in the 25 distinct varieties section and they nearly all, as in other sections, kept good till the last; they were Ed. Hatch, Golden Wedding, E. D. Smith, Inter Ocean, C. B. Whitnall, Goguac, Maud Dean (very fine), Emma Hitzeroth, Portia, Eugene Daille-douze, Vivian-Morel, Queen, Chas. Davis, a pretty creamy bronze, Lincoln, Titian, Mr. P. W. Smith, L'Enfant des Deux Mondes, Chas. Molin, Mrs. C. Lippincott

Princess of Chrysanthemums, H. Balsley, Mrs. F. L. Ames, Niveus. Mr. J. H. Dunlop was close behind on the first day, but his blooms were softer and did not keep as well; his varieties not among the above were Miss M. A. Forepaugh, Mrs. J. G. IIs, very large but too heavy for the stem, Judge Hoitt, Harry May, Ada Spaulding, Ingomar, American Flag, Good Gracious, Mrs. A. Hardy, Monarch of Ostrich Plumes.

For 12 distinct varieties Mr. R. Mearns of Parkdale, Toronto, was first with grand blooms of James Eadie, a lovely shade of pink and very good, G. W. Childs, Golden Wedding, immense, Mrs. J. Jones, Good Gracious, etc. Nathan Smith & Son a close second.

In the vases of 12 blooms, one variety. Messrs. Nathan Smith & Son took firsts for white, Niveus; yellow, Eugene Dailedouze and pink, Harry Balsley. Mr. J. H. Dunlop was first for any other color with Harry May to perfection. In vases of 6 blooms, one variety, Messrs. Nathan Smith & Son took firsts for white, the best Queens and the most beautiful blooms in the show; pink, Viviand-Morel, and any other color, Chas. Davis, a fine variety when well done, though the color would not suit every one. Mr. R. Mearns was first for yellows with 6 of the largest blooms in the show, Golden Wedding. Mr. M. can grow this variety perfectly. Messrs. Nathan Smith & Son were second with Major Bonnaffon, decidedly one of the best yellows.

Among the new varieties of 1894 shown were Mrs. J. Geo. IIs, white with greenish center, I don't like it; James Eadie, light pink, good; Ingomar, R. M. Gray, Iora, Oriana, Joey Hill, weak neck; Pitcher & Manda, good for exhibition when well done as it was here.

A certificate of merit was awarded to the "Philadelphia," which is certainly of a new shade (pale straw I should call it by daylight) and a beautifully formed bloom. The blooms had been shipped on the Saturday before the show and arrived on the Tuesday in only fairly good condition; they would probably have been better a week or two earlier.

A box of fine bloom was received from Messrs. E. G. Hill & Co., among which was Challenge, very good, but it does not do well round here, a large white seedling, Hy. Rieman and many others.

Messrs. Pitcher & Manda also sent a box of bloom, among which was a vase of Pitcher & Manda, which does well in these parts, an immense bloom of Eugene Dailedouze and a yellow seedling, Mrs. Bryant, large and good color, and many others. Many thanks, gentlemen.

Palms were all good and they were well placed, so as to relieve the eye among the masses of bloom. John Cotterill, J. McKerrigan, Grainger Bros. and Manton Bros. were the principal exhibitors. Ferns were as usual well shown by Exhibition Park, Huron Nurseries, Col. Sweny and Manton Bros. In orchids Exhibition Park and John Cotterill excelled, some beautiful varieties being shown.

For floral designs there were ten entries in each section. Mr. F. Burfitt "got there" for a cross of white chrysanthemums, a beauty. Messrs. Grainger Bros. were first for a crescent wreath of pink tinted chrysanthemums. Mr. G. H. Mills, a rising star, took first for presentation basket, chrysanthemums, two colors, and Mr. John Cotterill first for flat basket for table.

Decorated mantels although they made a very good effect where they were placed were not quite so well done as usual, owing probably to the cold weather pre-

venting the competitors from bringing out the right stuff. John Cotterill was first and Huron Nurseries second, but tastes differed on this judgment.

The carnations were all good, but with the exception of some J. J. Harrison, Edna Craig and Garfield they were all asleep before the show was closed. The bunches of 50 with any green not necessarily grown by the exhibitor were much admired and made a fine table; the first prize was taken by Messrs. S. Tidy & Son.

The roses as usual were magnificent and fully up to the Toronto high water mark. Mr. H. Dale of Brampton took firsts for Bride, Wootton, Sunset, Hoste, Beauty and any other variety; Mr. J. H. Dunlop took first for Perle, Mermet, Bridesmaid and American Belle, and Messrs. Spears & Muston were first for Madame Cusin, the seconds and thirds being divided up between the three. The vases of 50 roses, arrangement to count in judging, not necessarily grown by the exhibitor, were one of the principal features of the show and always had a crowd round them, and in the first three the judge had to look closely for defects and would have liked to give them all firsts. Mr. H. Dale was ahead, Messrs. S. Tidy & Son second and Messrs. Spears & Muston third. Violets were well shown but there were not so many entries as usual; Manton Bros. were first among the bunches of double and A. Gilchrist for single.

NOTES.

The Toronto chrysanthemum show of 1894 was a financial success, it has now become a fashionable event. Mr. Herman Simmers worked the advertising department with great effect, also the treasury department, and the association wants to see to it that they secure his services for next year.

We want less large specimens next year, an 8-inch pot is big enough for most people these days. What a lot of improvements one always sees that can be made next year.

The flower booth made more money this year than ever before, mainly I think owing to the exertions of Mr. W. Muston and Mr. W. Hill. Mr. Muston was kept hustling to keep the booth supplied with good stock, no other would do, first rate blooms sold on sight.

What appeared to strike Mr. Elmer D. Smith most here was the size of two joints of beef at Mr. Watkins' house where dinner was served for exhibitors, etc. What struck Mr. C. Swift most was the paucity of hat pegs on the doors. What struck Mr. R. Flowerday most was the capacity of some of the boys for Hopkin's "special." And what struck all these three gentlemen at once was the way the trains had of not waiting at the depot until they got there.

Seven hundred square feet of table were filled with cut bloom, too crowded in many places.

Country friends came in by the score on Thanksgiving Day, among them were Messrs. W. Foord and Mason of Peterboro, Mr. J. Hay, Brantford, Mr. Mitchell of Inerkip, Messrs. S. Ayllett, Foster and Townsend of Hamilton.

Cut bloom stood the four days remarkably well, the majority with the exception of carnations and roses being as good at the end as at the beginning. The following are some of the best keepers: Mrs. J. Jones, Pres. W. R. Smith, Harry May, Queen, James Eadie, Pitcher & Manda, H. Balsley, Golden Wedding, Mrs. C. Lippincott, Mrs. R. Craig, Domination, Judge Hoitt, Mrs. C. Duhme, E.

Dailedouze, Major Bonnaffon, Niveus, Maud Dean, Tuxedo, and here and there a Viviand-Morel.

The reading room was not quite a success some how or other, plenty of interesting horticultural literature was there, and every convenience, but the secretary's office seemed to have greater attractions. Cigars and champagne might be tried as a drawing card for the reading room next year.

Buffalo was well represented by Mr. and Mrs. Wm. Scott, Mr. Mepsted, Mr. Anderson and two or three other gentlemen whose names I could not learn.

Messrs. Nathan Smith & Son beat us in many of the cut bloom sections, but the vanquished appeared to take the beating with great equanimity. We hope he will try it on again next year.

The Toronto roses in the store windows also struck Mr. Elmer D. Smith as being exceptionally fine, he visited Mr. H. Dale's establishment at Brampton, and was astonished thereat. Now let us begin to prepare for the chrysanthemum show of 1895. E.

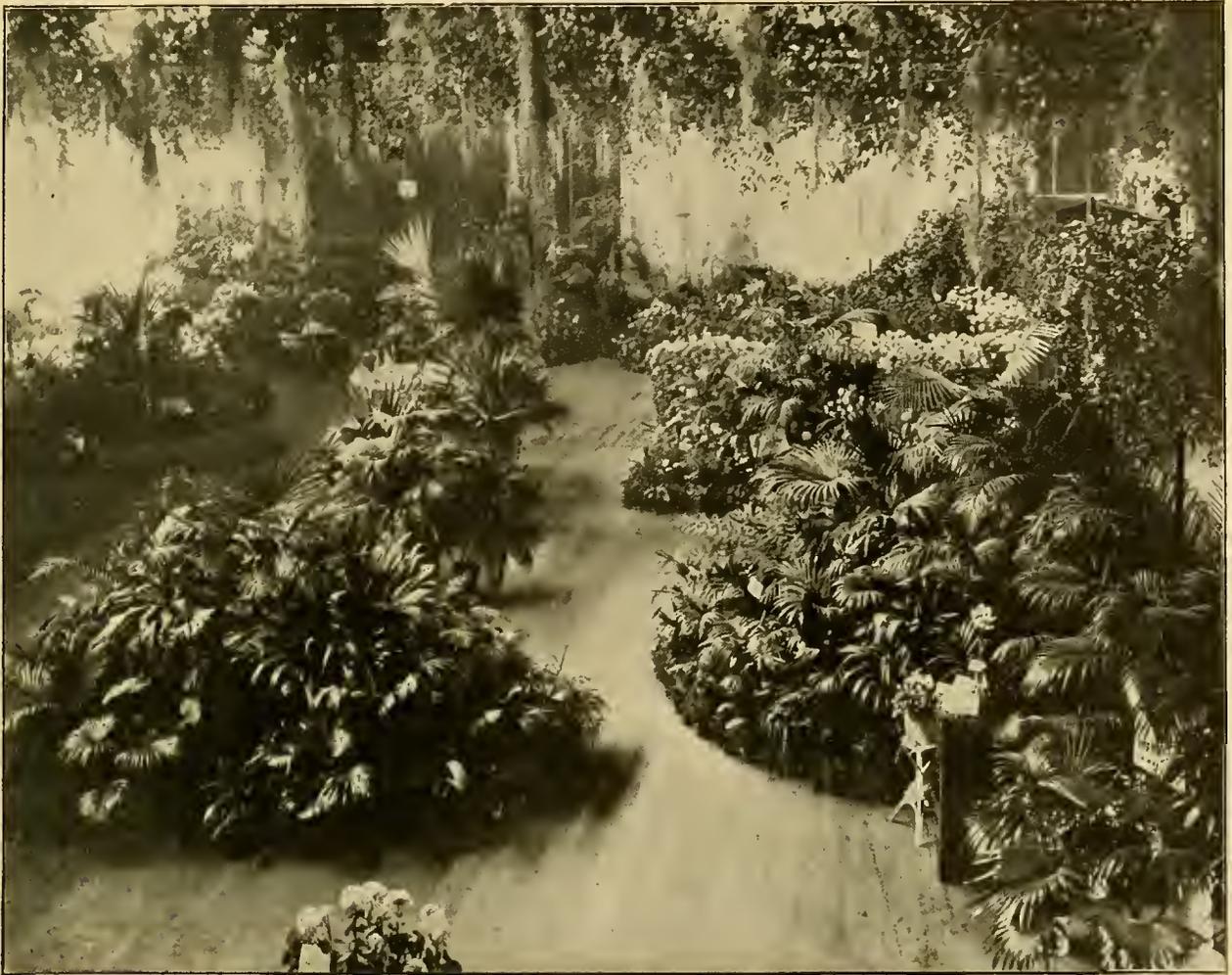
Springfield, Mass.

The chrysanthemum exhibition of the Hampden County Horticultural Society November 13, 14 and 15 closed the season's shows. This society has given seven exhibitions this year, and as far as a beautiful display goes this exhibition surpasses all their previous efforts. The arrangement of the hall was very effective; the stage end was a park scene on canvas, flanked and bordered with greens and trees, so that it was hard to see where the natural ended and the artificial began. This formed a sort of reception headquarters, where the patronesses and officers met their friends, and from which the sight was most beautiful, being just high enough to afford a fine view of the entire floor. At the opposite end was a Japanese pagoda, the lower floor being given up to the sale of flowers, while the next was a music stand from which the best orchestra in the city entertained the audience. From the stage one could see the entire floor, first the vases of 100 blooms competing for a prize of \$50 in gold, then specimen plants all about the center, while the tables for cut blooms were arranged in fanciful form on either side. The exhibition was admirably conducted, the private view to members and invited guests which just preceded the opening hour was a pleasing feature; this helped to draw the attention of society people, and helped to make the chrysanthemum show an exceedingly popular affair. The exhibition was opened by the mayor in a congratulatory address.

The finest bush plants ever grown in this locality were shown by A. N. Pierson of Cromwell, Conn.: 22 of these beauties filled a large box car. They were grown in 14-inch pots, which debarred them from competing in the regular classes, the limit being 12-inch. The entire lot was granted a gratuity equal to first prizes. Tuxedo, Golden Gate, C. B. Whitnall and Ivory were fine specimens.

H. C. Rowley of this city took five first prizes for plants, and one second. H. C. Alden and F. M. Hamilton were also winners of first prizes in the plant classes.

The cut blooms were a very fine lot; not often do we see so many well grown blooms displayed. Mr. A. N. Pierson took a majority of the prizes, being first in class for display, also for twenty-five, for 12 and for specimen, his specimen bloom being Minnie Wanamaker. Other awards for cut blooms went to Collis & Tucker, Ware, Mass.; W. N. Craig,



GROUPS OF DECORATIVE PLANTS AT THE CHICAGO SHOW.

Taunton; Zenas Crane, Dalton (Edward Dolby, gardener). A. N. Pierson also took all the firsts for roses, showing some very beautiful flowers, his best single bloom being K. A. Victoria.

Carnations were well represented. E. H. Howland took first for display, A. N. Pierson second and Collis & Tucker third. H. E. Chitty of Paterson, N. J., exhibited two varieties, Alaska and Corsair, which were given certificates of merit. B. J. Shaw took first for single variety, a seedling of robust habit, full and large, a little darker in color than Nicholson. W. N. Craig took second for single variety with Nicholson, and H. E. Chitty third with Minnie Cook.

The special prize for best 100 blooms (chrysanthemums) was awarded the city of Hartford, entered by the Hartford (Conn.) Horticultural Society; it was a truly magnificent vase of flowers. The exhibit from the city of Philadelphia was next in quality, but lacked in count as well as size of bloom; this was entered by the Penn. Hort. Society.

W. N. Craig of Taunton exhibited some fine Swanley White violets, for which he was given first place. R. E. Shupheldt of Chatham took first for Marie Louise and Lady H. Campbell. H. L. Loomis of Westfield was on hand with his ever-blooming clematis. L. W. Goodell of Pansy Park had a vase of *Schubertia grandiflora* which attracted much attention. H. Grout had four varieties of

seedling carnations. C. R. Miller & Co. made a display of roses, filling 11 vases; these were not for competition. Grallert & Co. of Colma, Cal., sent their new semi-double marguerite, but they didn't arrive until the last day of the exhibition and were very much dried and wilted, so that their beauty could not be judged.

George Keneday of Westfield, R. J. Norman of Lee and George H. Thompson of Lenox acted as judges. Mr. Robert Johnson and Mr. Edward Dolby were also among the Berkshire gardeners that visited the exhibition.

Mobile, Ala.

The first annual show of the Mobile Chrysanthemum Club, and the first chrysanthemum show ever held in Mobile is over. As a fine display of chrysanthemums and other flowers and decorative taste it has been a great success. In the matter of attendance it was not as good as we hope for next year. The hall was beautifully decorated with a frieze of wild smilax, dados of native palms and grey moss wherever it was effective. The orthodox Chinese and Japanese lanterns were, of course, made use of. Quite a beautiful effect was had by the arrangement on the walls of "living pictures" of chrysanthemums. Tastefully arranged clusters of flowers were inserted in jars which were fitted in handsome frames with richly colored silk backgrounds.

The backgrounds were made to harmonize with the colors of the flowers and the rich green foliage.

Among the most beautiful of the chrysanthemum exhibits was a vase of some twenty-five cut blooms from G. R. Gauze & Co. of Richmond, Ind. The Westview Floral Co. of Atlanta, Ga., made a fine exhibit of Brides and other roses. A. Strickler of Louisville, Ky., sent an exhibit which was delayed in transit and was not therefore as fine as it would otherwise have been.

The best exhibits for competition were made by Dr. Price of Boonville, Miss., and Mrs. Allen of the same place. Dr. Price showed a vase of 25 very fine Minnie Wanamaker and another vase of not less than twenty-five varieties. In this vase the notably fine flowers, although all were handsome, were Pitcher & Manda, Harry Balsley, Marguerite Graham, The Queen, Major Bonnaffon, Laredo, Pres. W. R. Smith, Golden Wedding and Viviand-Morel. Mrs. Allen showed a fine vase of twenty-five Dailedouze. The best specimen plant, any color, was a Geo. W. Childs, exhibited by Miss Maria Minge. The best single cut bloom was Elmer D. Smith, a well clothed flower of good substance and growth, exhibited by Col. Davis.

A. H. Hews & Co. of North Cambridge, Mass., made a trade exhibit of flower pots and were also represented by twelve handsome jardinières offered as premiums.

Ours was the single judge system and the awards were made, except in table decoration, by Mr. Abner Gamis of the Peachwood Nurseries at State Line, Miss. The table decorations were very beautiful and the judges, a committee of three ladies, tied the blue ribbon between those set by Mrs. Penrose Vass and Miss Maria Minge, the former being decorated with white "mums" and ferns, and the latter with pink roses and carnations.

The display of foliage and decorative plants was very creditable. Miss Maria Minge and Mr. C. Ravier being the principal exhibitors, while Mrs. Harvey Jones, an amateur, had some remarkably fine specimen ferns. Miss Mary Douglas, also an amateur, showed the finest rubra begonia I have ever seen, and her collection of begonias captured G. R. Ganze & Co.'s special premium. Col. Davis secured E. G. Hill & Co.'s special premium for best vase of Mrs. E. G. Hill.

Many of the exhibitors, presuming on the mildness of our climate, had not sufficiently protected their plants, and a day or two before the show a killing frost blighted their hopes for this year. It is quite evident that glass is necessary for the production of first-class prize takers. The "snug harbors" we hear so much of in amateur magazines have proved a delusion and a snare to many of the exhibitors, and besides this the open ground "mums" have neither the depth, body nor purity of those from the greenhouse.

We have every reason to be satisfied with our entry into the growing family of chrysanthemum shows. Our displays were grand and a revelation to the people of Mobile. The success of the show is largely due to the untiring efforts of Miss Maria Minge, who does not know what failure is and who is always in the right place at the right time. Nearly the whole burden of the show was on her shoulders and the arrangements, decorations, placing of exhibits, etc., were done under her direction. J. W. G.

Chrysanthemum Society of America.

PHILADELPHIA.

In my hurry in reporting the new varieties of chrysanthemums which were awarded certificates of merit by the committee appointed to examine seedlings at Philadelphia last week I omitted the following:

Miss G. Spaulding (Thos. H. Spaulding). This is white in color; an improved Mrs. Robert Craig. It is an exceedingly well built flower, and altogether a charming variety.

Miss Helen Bloodgood (Thos. H. Spaulding). This is a clear shade of pink, a very pretty and distinct flower. Incurved Japanese.

Mrs. Wm. H. Kemble (Chas. W. Cox). This was presented for examination on November 24. It is white Japanese, very distinct and beautiful; flowers are full to the center. The florets or petals somewhat resemble those of the variety known as Elkshorn. This should prove a valuable late variety. E. L.

St. Paul, Minn.

The St. Paul chrysanthemum show was gotten up entirely by Mr. Aug. S. Swanson, who deserves the greatest credit for his enterprise and public spirit. The attendance was fairly good, but not enough to pay expenses, which seems strange, as the weather was uniformly good, and all the visitors were delighted with the show. The exhibits included chrysanthemums, both plants and cut flowers, decorative plants and floral dec-

orations. There were well arranged dinner tables and a wedding canopy which was greatly admired. A wedding decoration in Vivand-Morel chrysanthemums was very good, the favorite dinner table being decorated with Mme. Caroline Testout roses. The artistic arrangement of exhibits was specially commented on. One very pretty feature was a flower booth, where blossoms were sold by a pretty Japanese. Good music made an additional attraction.

Thoughts on the Exhibitions.

Wouldn't it be best to limit the height of single stem plants to 2 feet 6 inches, or 2 feet 10 inches.

What is the use of putting up any other white against the Queen? No matter how fine the variety may be there seems no chance for any other sort with Queen in the race. The Queen takes on a finish and lustre—if such a word is proper—that surely places it ahead, and yet as a commercial flower the store men find fault on account of its dropping the petals.

It seems to me the C. S. of A. ought to award certificates to any deserving variety not previously honored. Why exclude foreign introductions if they possess undoubted merit? The way certificates are awarded now foreign introductions are practically excluded. H.

The Philadelphia Show.

Mr. T. H. Spaulding requests us to state that the potted plants of his new variety, noted on page 370 of our issue of November 17, were not exhibited by him, but by the originator, who had reserved the right to exhibit the variety at the Philadelphia show of 1894. The cut flowers were shown by Mr. S., but not the plants, as might possibly be inferred from the wording of the paragraph.

Notes on the Newer Chrysanthemums.

A few thoughts on the noted varieties of the newer chrysanthemums may not be amiss now the season is about ended: M. Richard Dean (Calvat) is one of the choice things of the season, a most lovely reflexed pink that captivates the eye at once. A fine commercial sort.

Madame Chas. Molin: The largest of all the white varieties, of the shape and style of Beacon but of double the depth and two inches more in width. An exhibition beauty.

M. Benj. Giraud: As rich in color as a G. W. Childs, opens its flowers by 10th of October, of massive build and good form. John Shrimpton, one of the finest and best of all the high colored chrysanthemums, does not burn and can be depended upon. Fisher's Torch, intermediate in color between Mrs. A. J. Drexel and G. W. Childs, a very warm Indian red. Eider-down, a valuable white for commercial use, splendid. Le Rhone, golden yellow of large massive build, and most superb color. Must be taken from crown buds. Hammond Spenser, pale blush of massive build and charming texture. J. Agate, incurved Japanese of immense size, pure white, will grace any exhibition table. Miss Ethel Addison, incurving Japanese, silvery amaranth color. Rose Shotta, purest white, of great depth, Mrs. R. W. E. Murray, the largest of all incurving whites with double the number of petals possessed by the Queen. Mrs. G. J. Beer, a rosy purple, not a desirable color, but this variety for size and depth stands unequalled. Mrs. Geo. Addison, large Japanese, color pure white tinted on outer petals soft mauve.

James Comley, a most unique and striking novelty. Long drooping petals, silvery magenta, with a white stripe down the center of each petal, 11 inches across. Minerva, one of the indispensable varieties for single stem pots, equally good for cut flowers; Judge Benedict, another excellent yellow for single stem pot culture. Achilles is one of the finest of all late varieties, a most massive flower of the Ed. Hatch type with a stiff stem. Mayflower, a most excellent white. Mrs. Geo. West, large, bold and splendid exhibition variety. Mrs. Howard Rineck, rather pale but one of the best pinks.

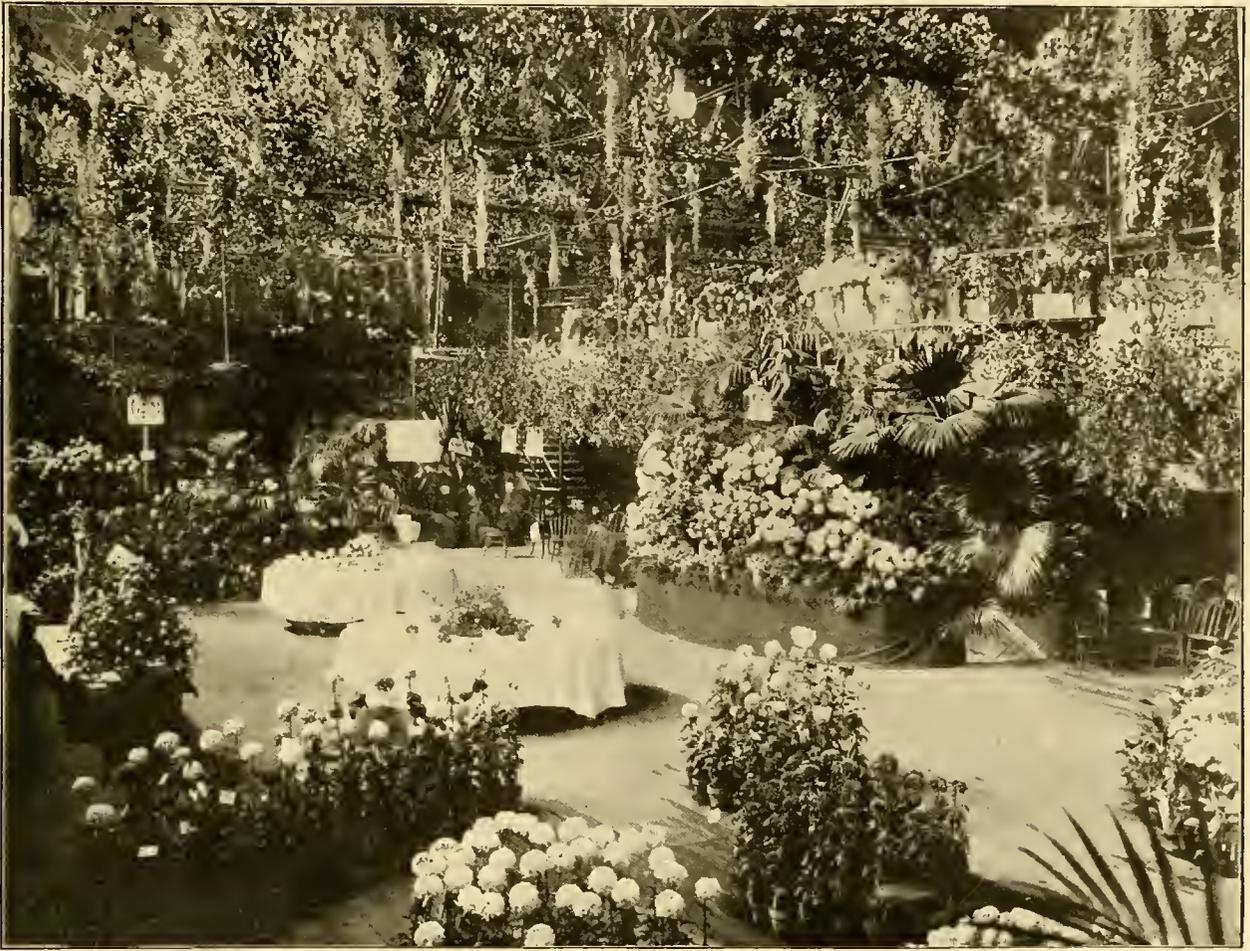
Mrs. E. O. Wolcott, one of the largest of the year's introductions, color rosy silver. Mrs. Geo. Magee, silver pink, crowded with petals, can't be left out of the exhibition varieties. Georgienne Bramhall, light or primrose yellow, one of the very best of the year. Mrs. H. McK. Twombly, pure white, very early, splendid. Silver Cloud, a most excellent variety, distinct in color, cream shaded apricot. Wanlass, a charming pink of great size, the only fault is its tall growth. Rose Wynne, quite unequalled in purity of color, of a pure tone in white which places it distinct from all other whites.

The above varieties equal or surpass anything that has been disseminated and are worthy a place in the most select collections, and are on a level with such varieties such as Queen, Dailedouze, Bonaffon, Mutual Friend, Sunderbruch and other noted sorts. E. G. Hill.

A Few Big Blooms.

A number of blooms recently received at this office from E. G. Hill & Co. included several new or little known varieties. At the head of all for distinctness and novelty we should place the new variety called James Comley, which was brought from Japan by Mr. Comley last year. It is a large, rather flat recurving flower. The petals are as flat and even as narrow ribbons, the outer ones strongly reflexed, and often twisted into an irregular spiral. The color is a soft light magenta, with a hair line of white near the edge on either side of the petal. The distinct coloring and shape makes this distinct from any other chrysanthemum we know, and we believe this will be a very valuable exhibition variety. It has excellent foliage, right up to the flower.

Several famous French sorts were sent, noticeable among them Mme. Chas. Molin, one of the largest and most noted French sorts, which appears among the winning sorts in most foreign shows. It is white, a huge crazy-headed bloom spreading 8 inches across and 7 inches deep. The petals are most irregular in shape, and rather brittle in texture. To our mind it is coarse, only fit for exhibition. Mme. la Comtesse de Galbert was a large incurved flower, rosy cream, shading to yellow in the center. The color is not very clear, and it did not make a very favorable impression. Monsieur Panckoucke, a very large flat light yellow, next came into notice. It is an extremely solid incurving flower, so tightly built that the central petals seemed to interlace. This was a favorite exhibition sort in England this season. An old but beautiful sort accompanying these was Etoile de Lyon, which Mr. Hill justly observes is not grown as plentifully with us as it deserves to be, though a leading sort in England. It is quite large enough for modern requirements, the specimen sent us being 7½ inches across and six inches deep. The color is cream,



ANOTHER CORNER AT THE CHICAGO SHOW, SHOWING SPECIALLY THE OVERHEAD DECORATION OF AUTUMN LEAVES AND FLORIDA MOSS.

with a few streaks of red and the flower very solid and well built.

Among English varieties sent by Mr. Hill was James Lamont, a solidly built magenta flower, the color being very streaky. This did not give us a very good impression. Another was J. Agate, described by M. de Meulenaere as pure white, but the flower received by us was creamy, the outer petals strongly stained with crimson. It is very large, incurved, and broader at the base than the top. Mr. Hill says this can be done very well.

Two of Mr. Hill's seedlings, H. W. Reimers and Gov. Mathews, were noted for the first time. The first named is a yellow incurving flower, cross between incurving Japanese and Chinese. It is a remarkably solid flower and a good color. It opens November 10, and looks as if it would last until the holidays. Gov. Mathews is a large incurved flower, slightly whorled and very high built, color white, streaked and splashed with magenta. Some blooms of Challenge, received with the foregoing, showed up to far greater advantage than at the Chicago show, being much more advanced, and yet apparently not fully expanded. It looks as if this would be one of the latest of all yellows. The color was excellent, and the stems were clothed with fine foliage right to the top, an advantage woefully lacking with the French Monsieur Panckoucke.

THE NEW chrysanthemum exhibited by T. H. Spaulding at Philadelphia in com-

petition for the "Blanc prize" against the Philadelphia has been named the New York.

The Swainsona.

Will some one kindly tell me what is the matter with my swainsonas? I have some fine plants; the foliage is dark green and appears perfectly healthy; they set full of buds but 95 per cent of them drop off. They are planted in very rich soil and watered with manure water once a week or oftener. They are in the carnation house and they are doing well.

MONTANA.

Replying to the inquiry of your correspondent respecting Swainsona galegifolia alba, I feel sure that the "manure water once a week or oftener" is at the bottom of the trouble. We had a similar experience with some plants of our own. On one occasion our desire was to make an exhibit of plants in flower of this swainsona in pots, and in order to have the plants in as fine condition as possible we used manure water, not very liberally, as we thought, but what little was administered was too much for these plants, for all or nearly all the flower buds dropped before expanding. This was our first experience in the use of liquid manure in the culture of swainsona, and it will be the last.

Swainsonas require liberal root room for their best development, but the soil must be porous, and if planted in the solid

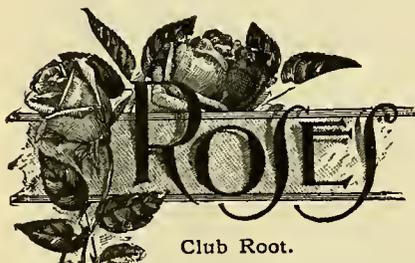
bed the situation must be well drained, if not so naturally then it must be made so artificially.

I had half a dozen plants of this useful florists' flower planted out in a solid carnation bed for two or three seasons, and they were certainly the admiration of all who saw them growing and blooming; and I have often regretted that I found it necessary to do away with them, which I did, on account of the space they occupied. It was not so much the space they themselves occupied, but the shade which they cast upon their surroundings. Some of the plants were eight feet high and six feet through. According to my own judgment, this is a plant which must eventually find a place in all establishments where cut flowers are retailed direct to their customers. It is also a flower which exemplifies in the extreme the necessity for cutting the flowers some time before placing them in the hands of retail customers. If cut from the plant and delivered immediately they have a tendency to wilt; but if cut and placed in a cool, dark refrigerator or cellar until, as John G. Gardner expresses the idea, the solar heat is thoroughly eliminated, it will give abundant satisfaction; and I would advise every florist who grows it to follow that plan. It has never seriously appealed to me as a flower for those who grow them for the wholesale market exclusively; but Mr. David Cliffe of Germantown, whose business is about equally divided between a wholesale and retail trade, has so much faith in its value that

he has planted the greater portion of one house with it, and he has expressed himself as being well satisfied with the results so far.

To return to liquid manure: Horticultural chemists claim that plants of the leguminosæ (pea) family—the same to which swainsonas belong—require little or no nitrogen (a very important food to plants in general) as they have the power of extracting all the fertilizing elements of that character from the atmosphere. Perhaps the manure water which we used contained too much nitrogen.

EDWIN LONSDALE.



Club Root.

Replying to your correspondent F. P. as to what is troubling his roses, from the description sent I should suppose they are afflicted with "club root." The only remedy that I know to help him at the present time is to give them about once a week or once in two weeks a dose of lime water. Take about a 12-inch pot full of fresh lime, slack it in the bottom of a barrel the same as a mason does for making mortar, when the lime is thoroughly dissolved fill the barrel (I allude to about a fifty gallon barrel, such as is used for kerosene, etc.) full of clear water, stirring it thoroughly, then allow it to stand from twenty-four to forty-eight hours, when the lime will settle to the bottom leaving the surface water clear. With this give the bed a good soaking as above. By adhering to this practice for the next two months I think he can do a great deal to help get his roses around into healthy condition. It will also be necessary to maintain as near an equal temperature as possible, say about 56° at night, put on air as soon as the temperature reaches 63° or 64° in the morning, gradually increasing with bright sun and reduce the same pro rata. A great deal depends upon the air as to getting the plants back into healthy condition again. The bed or bench should never be allowed to get dry, that is over dry or be saturated with water at any time so as to make the soil look like mud.

In several cases which have come under my observation and experience within the last two or three years this treatment has been of great benefit to roses afflicted like your correspondent's.

If he is growing Meteors in the same house with Brides and Mermets he will hardly get any good returns from them in the shape of flowers as they certainly need a higher temperature, but the additional temperature which would be necessary to mature Meteors to bring them to perfection would bring ruin to such varieties as Mermet and Bride as far as the quality of the flower is concerned and the health of the plants. These varieties should never be planted in the same house if best results are expected from them. They will do well enough with the same treatment for the summer, but when it comes to the winter the treatment for one is not at all suitable for the other.

The dropping off of the green leaves, as he describes it, I should take to be the result of the diseased roots, or possibly

he may have allowed the temperature of his house to sink too low at some time in the very near past. This causes a sudden check and chill and oftentimes will make the young green leaves drop very fast.

From the very meager data given I can only form the above opinion of the same, but should suppose that the above is the cause and have given the only remedy I know for the same. JOHN N. MAY.

Grubs in Rose Houses.

My rose houses are badly infested with grubs, and I would like to know the best remedy for exterminating them without hurt, or with little damage, to the roses. Can any one inform me right away what to do? GRUBS.

Your correspondent does not state what kind of grubs are infesting the plants, and as there are so many varieties of these pests it is hard to advise what to do. The most common variety found in rose beds or benches is the common horse fly grub. These are often produced in large numbers in the manure used and rarely do much damage to the roots. They vary in size and length according to age from half an inch or less to three-quarters of an inch, with white body and dark brown head. When fully developed and just before going into the chrysalis state they are about $\frac{3}{4}$ of an inch long and nearly a quarter of an inch thick. They feed principally upon decayed vegetable matter such as manure, etc., and in my experience rarely destroy the roots of plants. Prepare lime water made by slacking about a 12-inch flower pot full of fresh lime in the bottom of a barrel in the same way masons do for mortar, then when it is all thoroughly dissolved fill the barrel full of clear water, stirring it thoroughly and allowing it to stand thirty-six or forty-eight hours; when quite cold dissolve in water about four ounces of common washing soda, add this to the lime water stirring the whole again, then allowing it to settle as above. With the clear liquid give the soil a good soaking when it is a little on the dry side, repeat this in about two weeks and the grubs above described, also all earth worms and some other objectionable company for the roots of roses will disappear.

But if the grubs infesting your correspondent's plants are the larvæ of the June bug, spinchafer, or many other aliases with which this pest of warm June evenings is known (*Melolontha vulgaris*), this is an entirely different kind of an enemy and one that requires much more good generalship to do battle with if you expect to win the fight. This is also a very wary enemy, attacking the plants just under the soil, gnawing off the bark around the stem and by the time you can detect the damage it has done will have moved away carrying its full equipment of tools along and started on another path of destruction, possibly on a plant three or four feet away, and as sure as it starts its saws to work death will follow in its wake, unless caught and beheaded. To overtake and punish this desperado means careful watching and persistent work. The moment a plant shows the least signs of wilting in the young foliage stir the soil over carefully around the plant about one inch deep, if the grub has moved away do the same around the others near at hand till the enemy is found—what to do with him then I presume your correspondent will know. This animal is usually from one inch to one and a quarter inches long, of a light straw color, somewhat darker at the

extreme end, with a light brown head and usually assumes a form somewhat resembling a horse shoe.

There is still another kind of grub, and the most destructive of all, as it goes in large numbers. This is the larvæ of the *Aramigus Fullerii*, the common rose bug, which a few years ago was such a terrible pest where it once got a foothold. To do battle with this enemy needs plenty of ammunition, heroic courage and hard work, they being so numerous and of a totally different character to the last named, also of different habit as they bury themselves all through the soil. The young tender roots are the first victims of their warfare. When these are exhausted, or virtually so, they attack those nearer the stem. To erase them there is only one way that ever I have found and that is to clear the whole thing out, soil, plants and everything in the house that it is possible for them to secrete in, either the grubs or the mature bug; this last is a small brown insect about five-eighths of an inch long, with a hard shell. The whole should be burnt, including a scraping of the soil one or two inches thick from the floor of the house where it is at all loose. Perhaps your correspondent may think this means too much sacrifice to wage a warfare of extermination, all I can say is that it is the only means available, except persistent hand picking of the mature bugs, and a loss of nearly all the crop for two or three years.

But I hope it is not this last-named grub they have, and it may not be either of those mentioned as there are many other varieties which occasionally infest plant houses, but without more particulars I can not advise further than above.

I trust I may have given some suggestions which may be applicable in this case or of some use to others—but bear in mind that "eternal vigilance" should always be the watchword for all florists, at least such has always been the case with

JOHN N. MAY.

Summit, N. J.



Carnation Notes.

The sale of flowers depends greatly upon the condition in which they reach the market. Formerly all flowers were shipped or carried to the customer in baskets. Discontinue this practice at once; use boxes such as roses are packed in, never putting one bunch on top of another, for they bruise or injure each other even when bunched. Several growers are now packing carnations in the same manner as roses and they certainly carry much better than when in bunches of twenty-five, large flowers should never be put up in fifties. When packed loose the boxes should not be over four inches deep, line the box well with soft paper and see that before the cover is put on the box is well filled over the flowers with soft paper to keep the contents from shifting, for express messengers delight in hustling everything that comes within their reach.

Now this matter of packing loose will seem to many as a great undertaking; many retailers will say they prefer bunching and will not have them come to them in any other way, but if you have a superior article the retailer will be glad enough

to get your stock as you prefer to send it. It is an assured fact that loose packing is the best, and although it is a great innovation upon the established custom of the growers the day is not far distant when all first-class flowers will go to the market packed loose. While I have not yet adopted this method I must come to it and the boxes are now being made for this purpose. It must be understood that the finer stock looks when presented for sale the better price it will bring, and flowers of medium quality neatly and properly packed will often bring a better price than the very best goods. Never use old and soiled paper, for paper can now be procured so cheaply that there is no excuse for filth. Newspapers are often used for lining boxes; don't! they will serve very well for crumpling up to fill in the unoccupied spaces but they look bad. I have used these until recently, but seeing boxes opened in the market where only clean soft light brown paper was used I was cured of the newspaper business.

The statement has often been made, and it is a truth that is not told too often, that one-half of the skill in producing flowers lies in the picking, and this is certainly one of the greatest points in carnation culture. Some varieties must remain on the plant until they are fully developed; this is especially true of McGowan and Wm. Scott; neither of these are fit to pick until they have been open on the plant for nearly a week, and flowers of the McGowan which at first were badly doubled up, or with the petals recurved, after remaining on the plant five days became quite flat. This point I have tested this fall by marking quite a number. There are quite a number of varieties which must be picked much sooner; among these are Daybreak, unless grown in a comparatively dark house, and Albertini. Both of these sorts fade if left until fully open and both will develop finely after picking.

Now these points may seem stale and out of place to many of my readers, but these minor details are the essential elements (in part) which go to make a successful grower. Envious reputations are won only by careful and close application to every branch of the trade we may be following, and no one point should receive more attention than the picking and packing of our production.

CHARLES H. ALLEN.

THE RETAIL TRADE.

The Arrangement of Flowers.

XIII.

A word from one outside of the profession, but one who buys flowers and floral decorations, may not come amiss in this series of articles upon the arrangement of flowers for various purposes.

As a florist's customer I can only speak from the artistic standpoint and can not attempt any suggestions to help the grower and dealer dispose of material to the best advantage.

I like best flowers used with their own natural foliage, with stems cut of generous length and always unwired—wiring stems is fatal to artistic effect.

In arranging flowers for house or dinner table decoration instead of a set piece made in the florists' work room why not send some one of taste, a young woman for instance, to arrange and place the flowers where they are to stay? Originality is certainly to be desired; so instruct this person of taste to make no two arrangements alike or so nearly alike that

one appears a copy or duplicate of the other. Avoid the error most florists fall into in making the arrangement too stiff, formal and professional looking.

Another suggestion I should make to florists is to provide a greater variety of flowers from which to choose. We have roses, roses, roses, with the same ferns which look as though bought by the yard or bushel. I prefer flowers in their season. I do not like sweet peas in February and should not like chrysanthemums in June.

Cut flowers are at their best placed in undecorated glass vases, the mouths of which are smaller than the part holding the water, as shown in Fig. 1; or a cylinder shaped jar of glass always shows the flowers to good advantage; (see Fig. 2) the stems showing through the clear glass, and the



Fig. 1.

foliage that which belongs to the flower. I like too for coarse flowers a rough vase of pottery or terra cotta of neutral shade, always without decoration. Decoration on a vase used for cut flowers spoils the artistic effect and detracts from the flowers. I have found the flaring vase which tapers down to a point as seen in Fig. 3, the most difficult of all to arrange. The very prettiest and most effective that I have ever seen

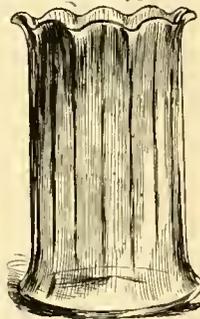


Fig. 2.

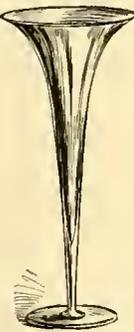


Fig. 3.

is a plain dark green globe-shaped glass vase (Fig. 4), which I have found in four sizes and wish very much I could find some of still larger size than these. The rich green harmonizes perfectly with everything I have put in it. Flowers look well arranged in silver dishes and vases, if the vases are plain, of simple outline and artistic in design.

The florists in arranging dining tables every fall at the flower show make some mistakes which trouble the lady judges in awarding prizes. All dinner table decorations should be either very low or very high—low enough to look over from one side of the table to another, or high enough to look under. Nothing is more annoying to one seated at table than to dodge about a mound of flowers to catch a glimpse of one's opposite neighbor.

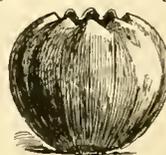


Fig. 4.

Another mistake is in using colors which do not harmonize. Where ribbons are used they must always match either the flowers or the foliage. They may be a lighter or a darker shade, but the color must be the same. Gilt and tinsel are in bad taste, and in fact I have never seen either tinsel, gilt or ribbon used on a dinner table with good effect.

Another common mistake is in crowding the table with flowers and ferns, leaving no place for the service.

The prettiest dinner table decoration I

have ever seen was this. The table was long enough to seat twenty-four guests; it was six feet wide and had oval ends. A margin of eighteen inches of pure white damask was left all around the table upon which to lay the service, and a set of pans an inch deep were made at the

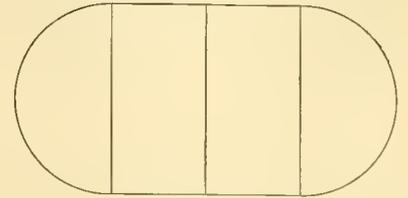


Fig. 5.

tinsmith's to entirely cover the oval center left after reserving the eighteen inches of margin. These pans were made in sections so that they could be used again upon smaller tables. The pans were filled with little plants, ferns, palms, lycopodiums, etc., none of which were over nine inches high. The shallow pans being in sections were readily arranged first, and then placed upon the table. They also protected the table linen, for the little plants were growing in their own earth and were simply lifted from the pots and arranged in the pans with the higher ones in the center and the lycopodiums, etc., drooping over the edge. In among these were placed some delicate cut flowers, violets, lilies of the valley, small roses, etc.

The only objection to this arrangement was its expense. The day following the dinner the plants were taken back to the greenhouse unhurt by exposure and unchecked in their growth. The whole arrangement was simple, natural and refreshing, and appeared a little garden of thrifty growing plants. It did not obstruct the view across the table.

The late Celia Thaxter in her charming book "An Island Garden" tells how she arranged cut flowers in her music room. She did it herself every day and in this manner: At 4 o'clock in the morning she gathered her poppies when they were covered with dew, and this ensured their keeping fresh in water for several days. A faded flower was never seen in her vases. If my memory is correct she had thirty-seven vases, all of which she describes—this one for nasturtiums, that one for poppies, several for sweet peas and so on. She liked best glass vases which showed the stems through. She was an artist as well as a true lover of nature and plant life, and the arrangement of flowers in her rooms gave her artistic instinct full play and showed a love of each individual blossom that comes only to those who love plants and flowers well enough to take care of them. She planted and raised her own flowers; no hand but her own touched her garden after it was once spaded in the spring. Can one imagine such a flower lover running an iron spike through the heart of a carnation or binding a lily of the valley to a toothpick with a bit of wire, or combining tulips with maidenhair ferns, or sticking stems of flowers into a basket of moss?

Stiff, set, wired floral pieces belong to a past age. The best people growless artificial and more simple in manner all the time, and consequently like to be surrounded by natural and graceful forms rather than by that which is formal and conventional. A single fine chrysanthemum in a glass vase showing the clear water and fresh stem, two or three fine specimens of any flower in season, or one fine rose—any of these used with its own

foliage is enough decoration for a dinner table for an informal occasion.

The florist who will draw to himself the largest and best patronage is he who will sell *fresh* flowers that have not been on ice, who will employ people of taste to arrange his flowers in the houses of his customers, who will keep always a variety of flowers and who never overcharges his patrons. FRANCES M. GLESSNER.
Chicago, November 3, 1894.

Best Ice Box for Retail Store.

I would like to be informed as to best kind and size of ice box for retail florist store.

I would also like to know what you think of a white interior for store. Do you think color would be better?

READER.

As to size, the needs of your business must largely determine that. The larger the stock of flowers you carry in stock the larger and greater must be the capacity of your refrigerator. But it is not merely for the preservation of your supply of stock that an ice box is needed. We must provide room for made up designs, etc., which often are made up the night before they are sent out. It is therefore advisable to get a box of good size even if your business be small. Let us say 6 feet wide, 4 feet deep and 8 feet high. This would give you ample room for stock for a run of ordinary business and besides leave room enough to store away a quantity of made up pieces. Under no circumstance would we advise a small box for sake of economy. Unquestionably a large box consumes more ice than a small one, but not proportionately. The compartment for ice should be large enough to hold at least 300 pounds of ice; the larger the pieces the longer they last. The inside of the box should be provided with adjustable shelves, made of slats (to allow a free circulation of air); in that way you are enabled to use your space to the best advantage and to its full capacity.

To illustrate: Suppose the box we have in mind has an ice chamber in the upper left hand corner 4 feet wide and 3 feet high; this would leave you a clear space of $4\frac{1}{2} \times 3\frac{1}{2}$ and $3\frac{1}{2}$ feet deep (inside measure) underneath. There you may keep your tall flowers in vases, such as Beauties, lilies, etc. This also will accommodate made up designs. On the right hand side you have a clear space from the bottom up past the ice chamber (which takes up about $\frac{2}{3}$ of the width on top) to a height of 8 feet, and $2\frac{3}{4}$ feet in width. Nail your cleats on either side 6 inches apart in order that you may be enabled to arrange your sliding shelves at whatever height you want them. If you carry your stock on trays have these made to fit your space on the shelves. If in vases you arrange the distance between shelves accordingly. For tall pieces such as a broken column you will find this section handy. All you have to do is to remove the necessary shelves and your room is provided.

A box to be used only for preserving stock should have no glass front; the flowers will keep their color better in the dark. Some dealers have in addition to an ordinary stock refrigerator a glass front show box. The inside of such an affair is best provided with plate glass shelves and the flowers arranged on these for display. For keeping qualities, however, such a box can hardly be commended.

There are two essential points you must bear in mind: First, note that the air in your box is not too dry, and secondly, don't have it so cold as to chill the flowers. Authorities differ as to the degree at which the temperature should be kept in order to get the best results. From our own experience we should say keep it as nearly 40° as you can.

As to the second question, we are of opinion that the interior of a flower store in white is the most tasty. Either white or delicate cream. A few touches of gold here and there will add elegance, but don't overdo it. And don't use common paint, which soon gets dingy. Enamel paints if applied in three or four coats will clean easily and look fresh for a long time:

Miscellaneous Seasonable Hints.

As soon as the chrysanthemums are cut, and Thanksgiving will see most of the benches cleared off, there will be a great deal of moving in and around to be done. With me a leading article to fill up the benches is the Easter crop of *Lilium Harrisii* and *longiflorum*. They have been doing all right in a cold frame, if well protected, but a hard frost does them no good. Hardy roses that are well established in boxes or pots will also fill up the benches, not H. P. roses that have just been received, they won't stand this moderate forcing because they have had no ripening process to prepare them for it, and have no working roots to support them.

What do you do with the soil from the chrysanthemum benches? It's a poor plan to leave it on the benches, a very unsatisfactory thing to set plants of any kind on and this puts the soil into such condition that it is useless for a year. If you made your soil for the "mums" of good fresh rich soil as directed in these columns and added a good mulch of manure in September this same soil will be plenty good enough for many plants in early spring, long before you can get at your frozen soil pile outside. Store away all you can of it in your sheds or under cover outside. When March and April comes you need a great lot for geraniums, fuchsias, coleus, cannas, and many other plants for which this chrysanthemum bench soil is amply good enough.

As chrysanthemums fade away you will be looking for Christmas crops. There is very little demand for tulips as early as Christmas. If you must have them the Duc Van Thol are the ones to bring in in a steady temperature of 70° and a heavy shade (I use cheese cloth); they can be forced in about 20 days. The best of the really fine tulips for very early forcing is *Chrysolora*, which I have had with 10 in. stems by the 25th of December, but as before said there is little demand for that sort of stuff before the middle of January. Endeavor to get all your paper white narcissus in for the holidays, and if possible give it a week in a moderate temperature, and the flowers will be much larger and more satisfactory to the buyer. There is not much in this flower except at the holidays, when everything goes. You should have a large lot of Romans for Christmas, and another lot for New Years. There has not been much profit for the grower in these of late years, but they always pay best in early winter.

When spiræas are received don't let them lay around in the box. Unpack and pot as soon as possible; before pot-

ting soak the clumps in a tub of water for a few moments, they are often very dry and the roots are so compact that if potted as received the ordinary watering scarcely wets the inside of the mass of roots. Don't attempt to force Dutch hyacinths for the holidays; it can't be done in this country with any success, and if it could it would not be desirable.

A very important flower at Xmas is lily of the valley. If you have the most favorable place where the bottom heat, or heat of the sand is 90° and the top 60° you can get 50 per cent. of the new crop to flower, but the cold storage pips are the best to depend on for holiday trade. Even if you depend on the newly arrived pips it is almost necessary to grow some of the cold storage stuff for the leaves alone, in which the very early forced new crop is sadly deficient.

Hybrid perpetual roses that have arrived from across the Atlantic should be potted firmly at once. Cut back from 9 to 15 inches from the pot, and plunge in some material in a cold frame, or if you are fortunate enough to have a house where the thermometer ranges from 35° to 40° that will do better. If you don't have pots ready for lilacs when received you can heel them in in a pit or frame and pot them as you bring them to force.

Winter has about come in our part of the country, so don't delay any longer in covering your tulips, narcissus, and other bulbs with about three inches of litter from the stable. I allude to those that are in flats or pans for forcing; no harm in there being a little frost in the covering of earth, it will keep them from growing too long, and don't put the manure on too heavy or they will be too warm and run up.

If you have not sown cyclamens sow at once. Just cover the seeds and keep in a temperature of 50° to 60° . As a house plant these will never go out of fashion.

Once more, don't in your hurry forget to fumigate the lilies; much of their future trouble is due to neglect of smoking in their early state. WM. SCOTT.

New York.

The quantity of flowers coming in has been somewhat reduced, and results in general are more satisfactory. The recent football games have brought about a great activity in violets and students and good violets are securely anchored at \$2 per hundred and upwards for fancy stock, of which there is more than the usual proportion. Carnations are comparatively the most abundant flower in the market at present, but they seem to hold pretty firm in price and withstand fairly well the persistent hammering of the Greeks at the 34th street market, a place where these noisy gentlemen swarm like bees. The three new seedling carnations which Mr. J. N. May exhibited at the Farmers' Club show, are creating a decided sensation among the high class stores. In roses American Beauty keeps far in the lead, and the number of fine specimens coming in is very large. Nothing is heard of the American Belle in this market. Meteor, the Pierson Company's great specialty, is in fine shape as received from this establishment and other large growers. There are a good many chrysanthemums still offered, but in the majority of cases the blooms are dragged in appearance and find a poor sale. Notable exceptions to this rule are some blooms of Niveus, which E. C. Horan is receiving from Dailedouze Bros., which are simply superb, and a very late flowering seedling

with pinkish flowers of remarkable substance and depth which Julius Roehrs is sending to Theo. Roehrs. Roman hyacinths, paper white narcissus, *Harrisii* lilies and lily of the valley constitute the bulbous stock now available. *Harrisii* sell well, but the rest go rather slowly. *Freesias* will soon be added to the list.

The retail stores appear to be well supplied with funeral and wedding work, but there is some complaint that transient trade is not what it should be, and it is transient trade that most truthfully indicates the condition of business. One of the most beautiful designs seen here for a long time was a large standing column of *Cypripedium* insigne in Thorley's window. Its simplicity was one of its best points. Galax leaves are being used more than ever in made-up work. A wreath of this beautiful foliage finished at one side with choice roses or lilies, and wide ribbon is lovely and will harmonize with any surroundings. Sunday trade seems to be on the increase. The large stores are all open on Sunday forenoon, and some of them all day, and they find plenty to do.

Many of the clerks in the retail stores are in a crippled condition from poisoning of the hands resulting from rose thorns. It is believed that the poison comes from the substances used by the growers as insecticides and fungicides, and the trouble seems to be worse this year than ever before. It would seem to be in order for the growers to mix something of an antiseptic nature with the water in which they stand their roses after cutting by which the poison might be neutralized.

The array of florists' wagons on 28th street every morning now is something gorgeous to behold. Even Tierney, who has up to the present time regarded his ordinary express wagon as sufficiently stylish for the transportation of J. Weir's purchases over to Brooklyn, has now caught the infection, and it is said proposes to paint one side of the wagon white and the other side dark green so that it will harmonize with the front of the store opposite which it may stand.

The wholesale supply dealers report the sales of green as unprecedented. Holly, too, promises to have a bigger run this year than ever.

A useful and salable little specialty that Herman Rolker puts up for retail florist trade is the Acme Flower Food. He promises a new metal pot label in the near future.

August Rolker reports a satisfactory sale for Dutch roses at auction this season, orders for quantities at limited prices coming in freely from the large nurseries.

The list of Broadway florists is about to receive a gratifying addition, Miss Rose Harris, late of 23d street, who will locate at No. 1146.

E. B. Lucatos opened a pretty store at 301 Columbus avenue on Thanksgiving Day.

Other new establishments are J. M. Jenny, retail, at 19 West 28th street, and G. E. Bradshaw, wholesale, at 746 Sixth avenue.

In town: Carl Jurgens, Newport, R. I.; H. H. Battles, Phila., Pa.; and Mrs. J. C. Vaughan, Chicago.

The annual dinner of the Florists' Club will take place at the "Arena" on January 19.

The Madison Rose Growers' Club are elated over the success of their first exhibition.

You can never invest \$2 to better advantage than in a copy of our trade directory and reference book.

Philadelphia.

The "mum" season of 1894 is going, going, and almost gone. The hustler with his big boxes is tired of his job, and from every direction the growers, the commission man and the retailers all are unanimous in their wish that the stock may run out as soon as possible. Over production we believe to be the cause of all the trouble, there have been entirely too many flowers on the market, and if the growers are to be believed in many instances half the crop has been left to wither on the plants. Comparatively little shipping has been done this season, while in former years the out of town demand was a large factor. Mr. Harris was always a large shipper, but says that his best customers have now houses of their own. George Craig says the florists would have to do twice as much trade during the chrysanthemum season than at any other time of the year to use up the stock offered.

The varieties now in the market are Lincoln, Mrs. Battles, Eva Hoyt, Wanamaker, Harry May, L. Canning, H. Balsley, Maud Dean, E. G. Hill, Cullingfordii, prices range from 50 cents to \$2 per dozen, the majority selling at from 75 cents to \$1.50. Beauties are now in good demand and the price is up, \$3 per dozen being asked for good stock. Messrs. Lonsdale, Burton and Heacock are sending in the bulk of them. Mr. Burton is also cutting some fine Belles. All the large teas are now in good shape and sell for \$3 to \$4, with \$5 and \$6 asked for extra Testouts and Kaiserins. Butler of Chestnut Hill is cutting some extra fine La France. Perles, Gontiers, etc. bring \$2 for the best; \$10 to \$15 per thousand for an assortment is the fakir's price. Carnations in a great variety of kinds are as fine as could be wished for, the majority bring \$1 per hundred, while a few extra command \$1.50. McGowan, Daybreak, Wilder and Portia are the leaders. Double violets are in great demand at from 75 cents to \$1 per hundred; there are not near enough to go round. Many of the growers send in a lot of half opened buds tied up in bunches of 25 buds to a bunch and expect good money for them; they have neither beauty nor fragrance and are a disappointment to everybody who handles them.

Trade has been livelier the past few days and stock of all kinds is in better demand. W. F. Murray of Atco, N. J., is sending in some fine mignonette, the best we have seen this season.

House plants are moving better, and from now on until after the holidays there should be a good demand for this class of stock. W. K. Harris has azaleas in flower and has them fine. Mr. Harris has a number of Chadbourn Automatic ventilators in use and speaks very highly of them; he says it is the most valuable device for greenhouse men ever introduced; it works perfectly and keeps each greenhouse at the temperature required. His son William suggested a check valve being placed below the machine so that when the house was being watered with the hose the pressure would remain the same, this is a valuable improvement and is to be placed on all the machines now being sent out.

The following programme for the meetings for the next few months of the Pennsylvania Horticultural Society has been mapped out and the gentlemen whose names are attached are to have charge of the subjects assigned: Decorative plants and flowers, Robert Craig and Edwin Lonsdale for the December meeting. Jan-

uary, farm and dairy, Col. B. Landreth and Jason Sexton. February, forestry and fruits, W. H. Moore and J. G. Gardner. March, insects and fungoid diseases, W. F. Dreer and Dr. Goebel. April, vegetables and small fruits, W. A. Burpee. May, plant foods, Frank Sempers.

Mr. Edwin Lonsdale has added to his laurels by being elected a delegate to represent Philadelphia county in the State Board of Agriculture.

Mushrooms are selling for 75 cents, hot house tomatoes 50c. per pound. K.

Chicago.

Thanksgiving trade was good. This is the universal verdict by wholesale and retail dealers. The supply of stock, particularly in roses, was rather light and in quality hardly up to the average. American Beauties averaged fairly good in quality and as usual were in brisk demand at top prices. First quality brought \$4.00 per dozen at wholesale and shorter stemmed stock \$2 to \$3. The market sold short early in the day. The average price for the smaller varieties of teas was \$4 to \$5. Most of the following varieties went at this figure: Perles, Mermets, Brides, Niphetos and Bridesmaid. In most of this class the quality was very poor, except Brides (some choice selected stock of these going as high as \$7), Testout and Kaiserin (the former very fine at \$7). Red roses were short in supply, the price being forced up under pressure of an active demand from \$5 to \$7. Good Woottons, in sympathy with Meteors, ruled firm at \$6. In carnations the supply was about equal to demand except white which went slowly, a few lots being left unsold. The demand was heaviest for red and Tidal Wave; average price for good stock \$1.50, fancy \$2. The supply of violets was quite abundant, much larger than was anticipated. In the early part of the week there was practically no stock received on the market, and prices were forced up to \$2 per hundred, at which figure the market opened on Wednesday. Sales however at this high figure were rather limited, really first class stock only found buyers. Prices gradually dropped to \$1.50 and in some instances to \$1. Mums were very plentiful, except first-class stock which was in active demand at from \$15 to \$20. In poor to medium the market was decidedly overstocked and lots of stuff had to be sacrificed at ridiculously low figures. *Harrisii* was plenty and of average good quality. Prices steady at \$1.50. Romans, in fairly good supply, went slow at \$4, valley at \$4, and a few narcissus (paper white) at the same figure. Stevia, of which there is an unusually good supply at present, sold at 50 cents a bunch. Mignonette brought \$2 to \$3.

Although some of the growers apparently indulged in the time-honored practice of picking to some extent, yet it must be admitted there was less of it this year than formerly. Still in the case of mums and violets in particular, there seems no doubt that better prices might have been realized if the bulk had not been held back. On Monday and Tuesday the retail boys were skirmishing around at a lively rate for just this kind of stock but none could be found. But this is the same old story year after year. Will some of our friends among the growers ever learn a lesson?

All of the wholesale firms who do a shipping trade report a heavy business in this line. In a number of instances quite an increase as compared to former years was noted, prices being fully up to last season.

The local retail trade was very quiet up to noon on Wednesday but in the afternoon and until closing time on Thursday the demand was quite lively and stock was disposed of to the last flower and at prices which ought to net a satisfactory profit.

The Art Floral Co. (Hilmers) will open a new store at 2202 Michigan ave., about December 1.

W. Palinski has opened a retail store corner W. Adams street and Western avenue.

K. Wehn of New York stopped in Chicago this week on his return from a trip to California.

Mr. E. H. Libby recently passed through the city on his way east.

Dean Hole delivered a lecture on "Bores and other imposters" at Central Music Hall last Monday, and on Wednesday evening he was given a reception at the residence of Geo. M. Pullman which was elaborately decorated with plants and flowers for the occasion. Chicago society was charmed by the Dean's fund of anecdotes of noted Englishmen whom he had met and his genial humor.

St. Louis.

While show matters are over for the present season, there is never a gathering of two or three members but what the subject of future shows is broached and considerable talk indulged in regarding one next season; so the possibility of the shows being continued is somewhat brighter than immediately after the close of the last display.

Quite a few of the store men have been taken in by a smooth talking, well dressed chap representing himself as an artist. With the majority, however, it has been only at the expense of some cut flowers and a little time. His mode of procedure was to enter and introduce himself, giving an address in the fashionable part of town, represent himself as an artist from Paris here to paint several portraits, giving names of prominent people as the sitters, and make an appointment with the florist to examine his rooms, after having given him a fifty-dollar decoration. After talking the matter over, giving size of mantels and number of arms on chandeliers he would casually inquire the price of several chrysanthemum flowers, and when told ask that they be given him, he being short of change, and would pay at the appointed meeting next day. In the majority of cases owing to the joy over the decoration order the flowers were handed out, and when the given address was hunted up next day it is needless to say was found not to exist.

The second annual flower show under the auspices of the Kirkwood Improvement Society was held in the Armory hall at Kirkwood on the 15th and 16th. The affair was very well conducted by the ladies in charge and gave universal satisfaction. The hall was nicely decorated and the plants exhibited were a credit to the amateurs who grew them. The principal and most attractive group in the hall was one of araucarias exhibited by D. S. Brown of Brownhurst; a table of cactus also exhibited by him attracted much attention. The only cut flower exhibitors were professional growers, and they exhibited more as an advertisement than otherwise. C. Young & Sons Co. exhibited about sixty flowers in great variety, all correctly labeled, and were awarded first prize. Robert F. Tesson showed a table of roses and was awarded first prize also, being the only exhibitor in that class. A special prize was offered for

"best specimen blooming plant for house cultivation," and limited to competition by amateurs. It called out a strong showing of large house plants and was finally won by a Begonia metallica. Refreshments were served during the afternoon and evening, and the second day wound up with a dance for the young people. All connected with the show express themselves as well satisfied, and the chances are that it will be continued in the future.

On the 20th Mr. Harry W. Chandler, Jr., head of the Chandler Floral Co., was married to Miss Sallie Alexander Jordan, daughter of Dr. R. M. Jordan. The bride wore white and carried a bunch of white orchids. A reception was held after the ceremony at the house of the groom's mother, which was prettily decorated with smilax and cut flowers. R. F. T.

Buffalo.

There has been nothing of great moment to disturb the "even tenor of our way" since you last heard from the Queen City of the Lakes. I wonder how many queens there are; anyway, if we are not the only city claiming that proud title we shall soon be preeminently the electric city. For it is promised that within a year almost every conceivable operation requiring physical exertion will be done for us by the mysterious fluid. You walk up to the hat rack, push a button and instantly you are enveloped in overcoat and hat. I wonder whether this mighty power will help violets to bloom. There has been no flower so scarce as violets for the past three weeks. It seemed a month ago they would be very plentiful, but from nearly all growers in this neighborhood there has been a halt in their progress. Many thousands more could have been sold. Carnations are coming in about as wanted. Much less favorable weather has shortened up the supply of roses, still there is no famine in them. Most of the chrysanthemums are cut, yet there are a few houses looking well for a later market. The varieties that are in prime order here yet are Lincoln, Balsley, Roslyn, E. G. Hill, Mrs. Jerome Jones and a few others.

There has been a good number of small parties, and one last week of more than ordinary brilliancy. It was a wedding, and on our fashionable and select North street. It was one of those good old fashioned orders, "Make a fine job of it," and no questions asked. W. J. Palmer & Son did it up in fine style.

There have been a few visitors here of late, including a gentleman by the name of Bayersdorfer; several of the florists seemed to know him and said he came from Philadelphia. Mr. Dimmock of St. Albans gave us a complimentary call, as also did Mr. Walter Mott. Mr. Mott did not get off any bon mots, but he went off with several good orders, which suits his constitution quite as well.

Your correspondent could not resist the temptation of making a short visit to Toronto in company with a few friends, including Mr. Peter Crowe of Utica (the champion bowler of central New York). Your Toronto scribe is such a modest man he will I am afraid scarcely like to tell you of the great excellence of their show, and at the expense of being considered a liberal dispenser of taffy I must be allowed to say that for the space covered by exhibits it could not possibly be beaten. The "mums" of Dunlop, Nathan Smith & Son, Mearns and others were grand, while the roses of Harry Dale, Spears & Muston and Dunlop were such

as the writer doesn't see anywhere else. The artistic arrangement of the floor was well conceived and a great success. The beautiful Philadelphia chrysanthemum was exhibited there, but it was in poor shape, and nothing like the grand flower I saw in Chicago. W. S.

Boston.

Thanksgiving Day has helped to stiffen up prices a little, but there is no such boom as we used to see. Carnations are abundant enough to prevent a very decided rise in prices with the exception of the very fancy varieties, and the rose growers appear to be content to send their cut in daily rather than risk trying to hold it for a Thanksgiving Day rise, which shows their good judgment. Violets have stepped up a little this week and if extra good command \$1.25 to \$1.50 per hundred. Single violets are being sent here daily from Philadelphia and they find a rather slow sale at about one quarter the price of double.

Roses from Waban Conservatories are very fine. No doubt some of the best of them are from the grafted stock which Mr. Montgomery has been planting extensively and thoroughly believes in. After looking at one of his benches of Bride grafted on Manetti one is constrained to agree with him. There are some indications of the troublesome "yellows" on Mme. Cusin. Mr. Montgomery ascribes this condition not to the soil but to too much water and heat. The first azalea plants in flower and Harrisii lilies came to this market on November 20 from Walter Butler of Readville.

Mr. P. O'Mara, president of the New York Florists' Club, will read an essay before the Gardeners' and Florists' Club of Boston on the evening of December 4. His subject will be "The Influence of Florists' Clubs on Horticulture."

The oldest daughter of Wm. Robinson is seriously ill with scarlet fever. A daughter of M. H. Norton has been down with diphtheria but appears to be recovering now. Ed. Welch of Welch Bros. is confined to his home with a severe attack of rheumatism.

Thomas Flanagan, for many years a florist of Malden died on November 26.

The Water Hyacinth.

Replying to the inquiry as to best method of handling Eichhornia crassipes major during winter, would say that it is one of the most convenient of all water plants to handle either summer or winter.

If the stock is strong and clean, and the object simply to carry over winter, place the same in a tub (half a kerosene barrel) with clean water only, and keep in a greenhouse with minimum temperature of 50°. The plants will bear partial shade during the day with no ill effect, thus allowing the tub to stand partly under the bench. To keep the plants growing place in a house having 10° higher temperature, but give all the light possible or the stems will become elongated, and thus destroy the attractive feature of the plant. In a warm house red spider is very apt to attack it, otherwise it is free of insect pests. Should the plant become sickly and pale green to yellow in color put some soil in the tub, about six inches, and allow four inches of water. As soon as the roots penetrate the soil a marked difference will be noticeable in the plants, and they will make rapid growth and flower.

WM. TRICKER.

Musa Ensete Fruiting.

"E. R. M." wants to know if Musa ensete can be grown to fruit in a hot-house. Yes, it can, if given plenty of room, heat and moisture, but who would want to give it room for the fruit, which is much inferior to other species. M. Cavendishii, the species generally grown in hothouses for its fruit grows freely, does not want a very high temperature, and its fruit is of the best. The time it takes for Cavendishii to fruit depends on the condition under which it is grown, a strong sucker with plenty of heat and water and a rich soil will probably fruit in three years, and he who has ever tasted a ripe golden banana fresh from the plant will think very little of those grown in the West Indies, picked perfectly green and ripened partly in the hold of a vessel and finished off in a northern loft or cellar.

W. S.

Germinating Clematis Seeds.

Will some reader of the FLORIST tell me the best method of germinating clematis seeds?
CONSTANT READER.

PITTSFIELD, MASS.—At the recent chrysanthemum show of the Gardeners and Florists' Club of Berkshire County Mr. R. G. Hanford of Norwalk, Conn., showed some fine roses, including Kaiserin Victoria, Bride, Perle and Papa Gontier, also a group of decorative palms.

YOUNGSTOWN, O.—Last Sunday morning the private greenhouses of John A. Logan Jr. were totally destroyed by fire. An incompetent man that believed in large fires to guarantee long hours of sleep was the cause.

OUR trade directory and reference book for 1894 contains 270 pages of information of real practical value to every one in the trade. Price \$2.00.

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C. N. ROBERTS, Coatesville, Pa.

SITUATION WANTED—As rose grower; have had 8 years' experience in growing stuff. Address
G, care American Florist, Chicago.

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C, care American Florist, Chicago.

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SITUATION WANTED—By a practical seedsman, nurseryman and florist competent to conduct any branch of business. Address O, care Am. Florist.

SITUATION WANTED—By thoroughly competent gardener and florist; life experience; English; single; age 28. Best of references. Address
H S, Box 197, St. Charles, Ill.

SITUATION WANTED—Commercial place in east preferred, by single man; 12 years' experience, and recommendations unexcelled. Address D S, care Geo. A. Sutherland, 67 Bromfield St., Boston.

SITUATION WANTED—By a married man; 10 years' in forcing roses, carnations and bedding plants. No. 1 references; steady and sober; capable of taking charge of either private or commercial place. Address N, care A. N. Greenfield, Coatesville, Pa.

SITUATION WANTED—By young florist, nine years experience in most all branches, sober, reliable and not afraid to work; best of references; between Allegheny Mts. and Mississippi River preferred. Address
GROWER, care American Florist.

SITUATION WANTED—As florist's assistant, by a young woman who has given satisfaction in the arranging of funeral designs and floral decorations. References. In or about Philadelphia preferred. Address
H T W, 412 Walnut St., Philadelphia, Pa.

SITUATION WANTED—By florist and gardener. S first-class rose, carnation and violet grower, palms and ferns and general stock of greenhouse and outdoor plants; private or commercial; 18 years' experience, age 36, married, no family, English; good references. Address
J 67 Madison St., Morristown, N. J.

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J P, care L. S. Williams, Watkins, N. Y.

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WANTED—A young florist with \$150 to invest can bear of a good chance by addressing
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WANTED—Single man, American, rose and carnation grower, for San Antonio, Texas; wages \$25 and board; bring references. Apply
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Mention American Florist.

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A FULL STOCK IN THE BEST CONDITION POSSIBLE. STOUT, PERFECT PLANTS. ALL SIZES, UP TO ELEGANT SPECIMENS, AT REASONABLE PRICES. If you do not know the quality of my plants try some. There are none better. Price List on application. MENTION THIS PAPER.

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in commerce. We have them in all sizes, and Prices to suit.

CERTIFICATE OF MERIT was awarded for this sterling Decorative Plant at the convention held at Atlantic City, August, 1894. Send for price list.

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The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to those lines ONLY. Please to remember it.

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

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

Address THE AMERICAN FLORIST CO., Chicago.

THE Agricultural Department at Washington is now using seven of the Brown bag-filling machines in the seed division. It is estimated that each machine will do the work of ten or more women. The machine is fed with seed through a large hopper. It measures the seed, opens the packet, dumps the seed into it, glues the open end, closes it up, and discharges the filled bag ready for mailing. It will handle any kind of seed, and packets from 2x7/8 to 4 1/2x6 inches in size. Thirty thousand filled packets a day of ten hours is its normal capacity.

WE HAVE received from the author, Prof. F. M. Webster, a pamphlet on the development of *Fidia viticida* Walsh, an injurious insect affecting the grape. Prof. Webster, who is known to florists through his researches regarding black spot on roses, displays keen insight into the life history of this obscure insect, and the pamphlet will possess much value in economic entomology.

Hoya Carnosa Fruiting.

A correspondent from Kirksville, Mo., says *Hoya caruosa* is in fruit in her greenhouse, and wants to know if it is not a very uncommon occurrence. It is rather seldom seen in fruit, yet on old plants fruit is often seen. A plant that is closely allied to it and belongs to the same order (*asclepias*), *stephanotis*, is not often seen to fruit, yet a plant in this city of the latter bore a number of fruit two years ago. Mrs. — says her plant was propagated from a layer; they can be propagated either from cuttings or layers, but the latter will give the stronger plant.

WM. SCOTT.

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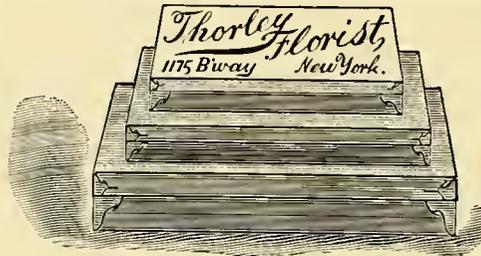
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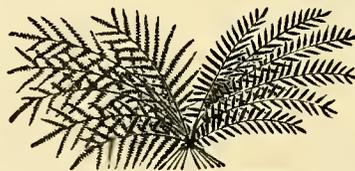
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PASSED CHICAGO, west bound: J. M. Kimberlin and son of Santa Clara Cal. Mr. K. still has a little Red Glohe left.

DIFFERENCES which have arisen between a Paris house and one in St. Paul are it is reported to be adjusted in the law courts.

THE RED CLOVER is now the state flower of Vermont. It was selected by over 9,000 out of the 17,000 votes of ladies of the state, and was then officially adopted by the state legislature.

CALIFORNIA WONDER is a new cauliflower, heading well there even in the hottest summer weather, larger than ordinary sorts, and is being shipped east from Coast in car lots as far as Denver.

MR. KIMBERLIN of California believes that an eastern seedsman not a subscriber to the FLORIST suffered a loss of at least \$1,000 because he did not have the early information of seed crop conditions contained in its columns. The moral is plain—subscribe.

L. L. MAY & COMPANY, nurserymen, florists and seedsmen, of St. Paul, Minn., are offering space in their catalogue for advertisers. They state, however, that nursery, florist and seed advertising will not be accepted. These lines are rigidly excluded, but they invite with all warmth and attention agricultural implement and other advertisers.

TO THE AMERICAN FLORIST:—It seems to me that with a united action of the seed trade we might succeed in having Uncle Sam stop his seed shop. The free distribution of seeds was never the intent for which the department was created. It was for "the testing and introduction of new and rare seeds and plants," in which it has proved a grand failure. The American seedsman can beat U. S. at that business. The next thing was to open a seed department and run opposition to the seed trade of the country. Why does the government not start a book store, or a jewelry store, and run that in opposition to the legitimate trade of the country, that the Senators and Congressmen may supply their constituents free through the department, as is the case with seeds now, and so give the seedsmen a rest. No doubt some enterprising member of those trades would succeed in unloading on the government all the inferior made and faulty goods in their line, and the men and women now employed in the seed shop, who are held there through the influence of those who vote for appropriations to keep them there could be continued, only let up on us, and let us have a change. AN OLD SEEDSMAN.

At the Chrysanthemum Show.

Little Edith, anxiously—"Can't they do anything to those big flowers, mama, to keep them from getting all ravelled out?"

Short-sighted barber, absently running his fingers through Cholly's chrysanthemum—"My friend, your hair needs trimming."—Chicago Tribune.

Clematis Jackmanni.

One year, nice dormant stock, for potting up for Spring sales, \$2.00 per dozen; \$12.00 per 100. All home grown.

F. A. GALLER, Bloomington, Ill. Please mention this paper.

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They are Very Cheap. They are Easily Grown. They Sell Well. They always attract attention in store or greenhouse.

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LATANIA BORBONICA, from 2-inch pots, 1 year old, fine plants, \$4 per 100; \$35 per 1000, CASH.

Must sell. Cold weather no hindrance to shipping.

GEO. WITTBOLD, 1708 N. Halsted St., CHICAGO.

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What does? GRAPE DUST. Sold by Seedsmen.



TOBACCO DUST. Per 10 lbs 50c; 25 lbs \$1.00; 50 lbs \$1.50; 100 lbs \$2.50. Extra fine, per 100 lbs. \$5. Sample FREE.

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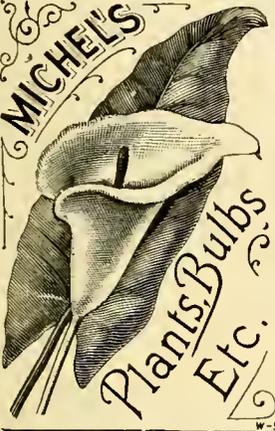
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CORSAIR. The scarlet McGowan.

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H. E. CHITTY, Paterson, N. J.

New Notes.

QUINCY, ILL.—Steps are being taken towards the organization of a Florists' Club here.

JANESVILLE, WIS.—Walter Helms has begun the erection of a one story brick store 22x50.

NEW ORLEANS.—The New Orleans Hort. Society has decided to have a spring exhibition in April.

BURT EDDY, general agent for J. C. Vaughan, left last Wednesday on his annual trip to the South Atlantic coast.

BROCKTON, MASS.—H. P. Allen & Son have recently started in business here at 41 Glenwood street. They intend making a specialty of carnations.

OSKALOOSA, IA.—W. E. Hearne, until lately foreman for the Kemble Floral Co., and formerly foreman for J. M. Jordan of St. Louis, has accepted an offer from a Belgian firm who wish to introduce the American system of growing roses and other cut flowers. He sails from New York about December 1.

FINNLEY, O.—Fire did \$300 worth of damage to the greenhouses and stock of M. B. Patterson November 3. The fire started in some wood work near the furnace. No insurance. Mr. Patterson met with another serious loss in plants last winter through failure in the supply of natural gas used for fuel, a house of plants being frozen.

DETROIT, MICH.—The park commissioners intend establishing an arboretum on Belle Isle, Prof. Plumb of the Agricultural College being delegated to select a suitable location. The first site picked out is that now devoted to picnic and baseball grounds, which is naturally well wooded, but public opinion is against this, and some other location will be found. The Irvine Co. has been holding a chrysanthemum show at 220 Woodward avenue.

SAN ANTONIO, TEX.—The Oakland Greenhouses, formerly owned by M. C. Long, at 216 Oakland street, have been sold to Mrs. Sam Moverich, who has removed the buildings, stock, etc. to her former place of business at 309 10th street. With the greenhouses Mrs. Moverich formerly had this now gives her one of the foremost establishments in the city, which is all heated by steam. The establishment will continue under the name of The Oakland Greenhouses. Mr. Long will remain in the city for the present but will not engage in floriculture.

So. FRAMINGHAM, MASS.—The Framingham Nursery Co. have made enviable progress in the development and laying out of their nursery grounds, which comprise some twenty acres of land, originally anything but tempting in appearance, but now through energetic and judicious labor as good planting ground as can be found anywhere in the state. One greenhouse of best construction, 18x100 has been erected and a packing house 25x125 is under way. Hardy stock will be the specialty. Chas. B. Merrell is president of the company, H. B. Clewley, treasurer and Wm. B. Whittier general manager.

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Also additional award at Chicago of Silver Plate for best tested seedling.

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MUTUAL FRIEND.

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Strong 2½-inch pots, 50c. per dozen; \$3.00 per hundred.

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ROOTED CUTTINGS of first four, \$3.00 per 100; of others, \$2.50.

Rooted Cuttings of Challenge, Marie Louise, Eugene Dailedouze, Inter Ocean, Mrs. Craig Lippincott, \$5.00 per 100. No order for less than \$2.00 desired. Cash with order unless for large lots from known purchasers.

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Orders booked for Rooted Cuttings of above varieties.

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A few hundred of the above. Strong plants, splendid for forcing; very large pure white flowers, \$10.00 per 100.

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The finest early variety ever introduced. (See this paper Oct. 13, page 245.)

MAYFLOWER, white, extra fine mid-season. **MINERVA**, clear yellow, extra fine mid-season. These two last named are now selling at a premium over all others in New York market. Good Stock Plants of the above, 50 Cents each.

10 per cent. discount for cash for all orders over \$2. All the best varieties at reasonable prices. **JOHN N. MAY,** Summit, New Jersey.

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120 VARIETIES. 120

Stock Plants of Chrysanthemums.

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New Notes.

CHARLESTON, S. C.—Arrangements are being made for a floral parade in this city in the near future.

LANCASTER, PA.—Dr. I. H. Mayer & Sons are adding two new houses, one 10x50, and one 20x54.

HUDSON, MICH.—C. H. Peck has opened a down-town store at 77 Main street, and has recently added a new house 20x70.

IOWA CITY, IA.—Jas. Aldous & Son have removed to corner of Dodge and Church streets, where they have built new greenhouses.

MILWAUKEE, WIS.—C. F. Schneider has started in business on Auer avenue, where he has built a house 18x64. He will add two or three more houses in early spring.

MIDDLEPORT, N. Y.—J. H. Gould, whose business has in past years been mainly market gardening, is now devoting more space and attention to the growing of florists' plants and flowers.

ROCHESTER, N. Y.—James D. C. Rumsey, assignee of Jabez Frank Morris, the Brighton nurseryman, has filed a schedule showing liabilities of \$10,077.25; nominal assets, \$45,602.62; actual assets, \$19,801.41.

ELGIN, ILL.—The wound inflicted several weeks since by Geo. Souster's dog on George's good right leg is mending slowly, and there is talk of "grafting" some flesh and cuticle in place of that removed by the dog. Several of his friends have offered to make the sacrifice for George, who is able to walk about.

BEREA, O.—The Parker Floral Co. is the title of a new firm here, of which C. W. Parker is general manager and James P. Murphy florist. Their seed store and salesrooms are on Bridge street and the gardens and greenhouses at "The Maples." They will grow roses and carnations as a main flower crop, and a general line of bedding plants.

WACO, TEX.—The chrysanthemum show at the Cotton Palace music hall November 15 was a decided success. Mrs. S. W. Cohen, chairman Hort. Com., deserves special credit for her zeal and interest. Premiums were divided up among the various florists, the Dallas Floral Co., Dallas, Tex., being awarded the sweepstakes for best general display of cut bloom and plants. Mrs. Cohen proposes to organize a state chrysanthemum society and have annual shows.

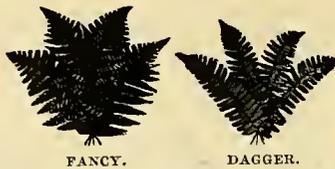
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"GREEN HOUSE PUTTY"

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To be applied with a bulb. The only putty made to work this way for greenhouse sash.

PUT UP IN 20 lb. CANS.
Has been used by florists in this city for years. Try it and you will use no other.
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We have been using the T. H. Nevin Co.'s Green House Putty for some time, and are pleased to recommend it to all those who wish a number one article. It has always given us perfect satisfaction. When you use this Green House Putty you will be sure of good results from same. Signed:

JOHN RODGERS, Florist, Green Tree Boro., Pa.
HARTMAN BROS., Florists, Allegheny, Pa.
T. H. NEVIN CO.,
Corrodera of STRICTLY PURE LEAD,
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IN LOTS OF 5,000 AND UPWARDS, \$1.00 PER 1000. Ferns furnished the year round. Special attention given to supplying the Wholesale Trade. Write for prices.
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SPHAGNUM MOSS a specialty. Long, clean fibre, dry or green, \$1 per barrel, or six bbls. for \$5. Write for terms on large lots. Terms cash, or goods will be sent C. O. D.
CHRISTMAS TREES. American White Spruce, much better shape and color than the Blue Spruce, also Balsam Fir from 3 to 30 feet high. Special attention to supplying carload lots. Write for price list and terms.

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ESPECIALLY FOR FLORISTS' USE.
\$1.25 per Thousand Ferns.



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Prompt, first-class work. R. H. COMEY, Camden, N. J.
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"The most valuable labor saving invention I ever used."—C. E. WELD, Roslindale, Mass.

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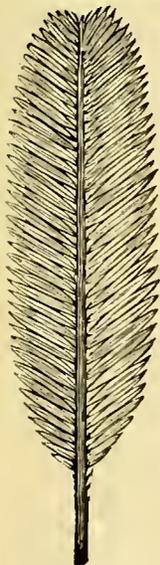
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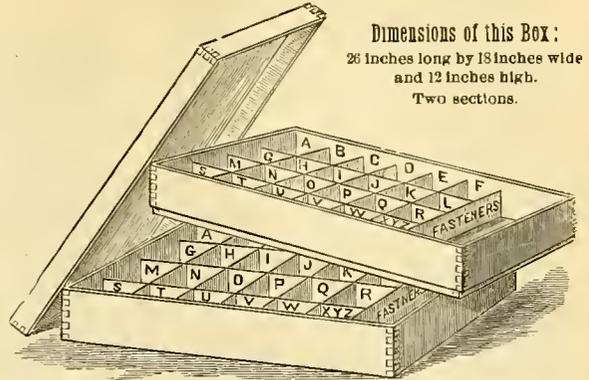
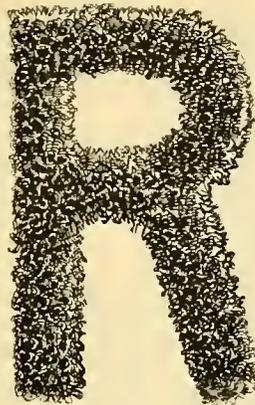
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St John, New Brunswick.

The St. John Horticultural Association having secured about five acres of land at Lily Lake have erected a greenhouse 60x20, quarter span roof, and obtained the services of Mr. E. G. Knott, an experienced and competent superintendent, whose work on the public squares has elicited the greatest praise from the citizens the past season.

The annual chrysanthemum show was held in the assembly rooms of the Institute on the afternoon and evening of Nov. 14. The Y. M. C. A. orchestra furnished music which added much to the attraction of the show. Mr. McIntosh with his display of specimen plants in 12-inch pots easily captured the first prize. Messrs. Cruikshank and Goold run each other close on cut flowers; the former with the Queen and Good Gracious, and the latter with Viviani-Morel and Niveus received a great deal of attention. J. Bellington of Fredericton made an excellent display of standard varieties and captured a goodly share of prizes. Next season the boys propose to do each other up in good style. St. John will be a good town for wholesale chrysanthemum growers next spring.

W. H. Jones has been showing some fine "mums" at his store the past week, some G. W. Childs being exceptionally good; his gardener, Mr. Curran, proposes to be on hand at the autumn exhibition and show the boys what he can do. The chrysanthemum fever has struck the town badly; all dealers report a rushing business in addition to which a large amount of funeral work makes the florists look quite cheerful.

H. S. Cruikshank has put up two new houses this season. H. E. Goold of Sussex has also erected a 50-foot house for pot plants and rebuilt an old one. S.

CHRYSANTHEMUMS? I wish the people that grows them was dead. They're ruining the whole business these days.

Jos. HART.

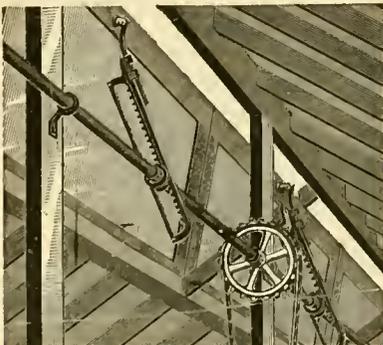
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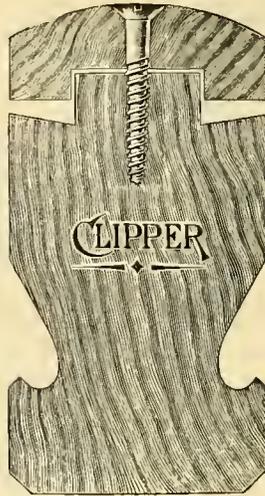
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Every user of Flower Pots should correspond with us before purchasing elsewhere. Our facilities are unequalled.

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Announcement to Florists.

We desire to announce the dissolution of the firm of Sipfe Dopffel & Co., and to introduce to the trade its successor, The Syracuse Pottery Co., which will be under the management of William Dopffel and Conrad Breitschwerth. The business will be conducted as heretofore, except on a larger scale to meet the growing demand for our goods. We have accordingly enlarged our plant and capacity, and with unsurpassed facilities are now prepared to fill the largest order on short notice. Our latest improved machines are turning out the best and most serviceable flower pots in the market, and assuring you of our intention to lead in further improvements we solicit a continuance of your patronage in the belief that we can supply just what is needed at a price and in a manner satisfactory to all.

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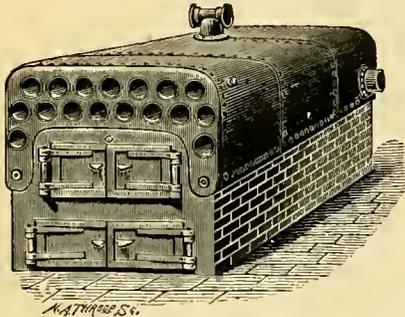
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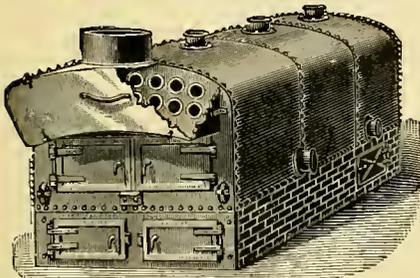
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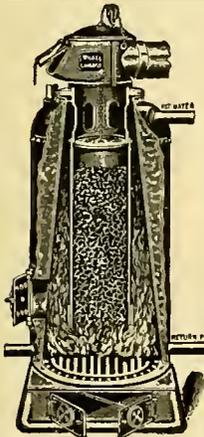
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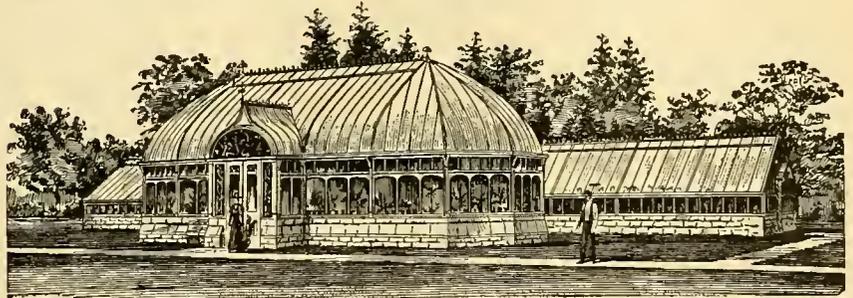
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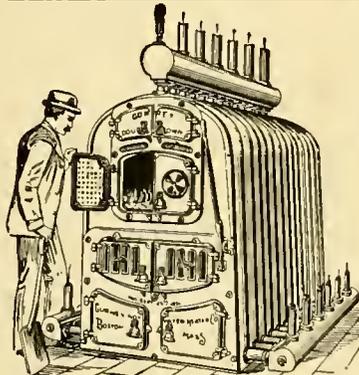
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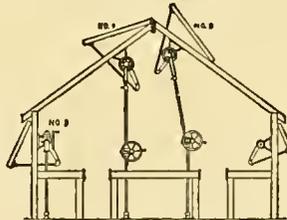
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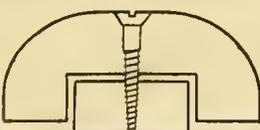
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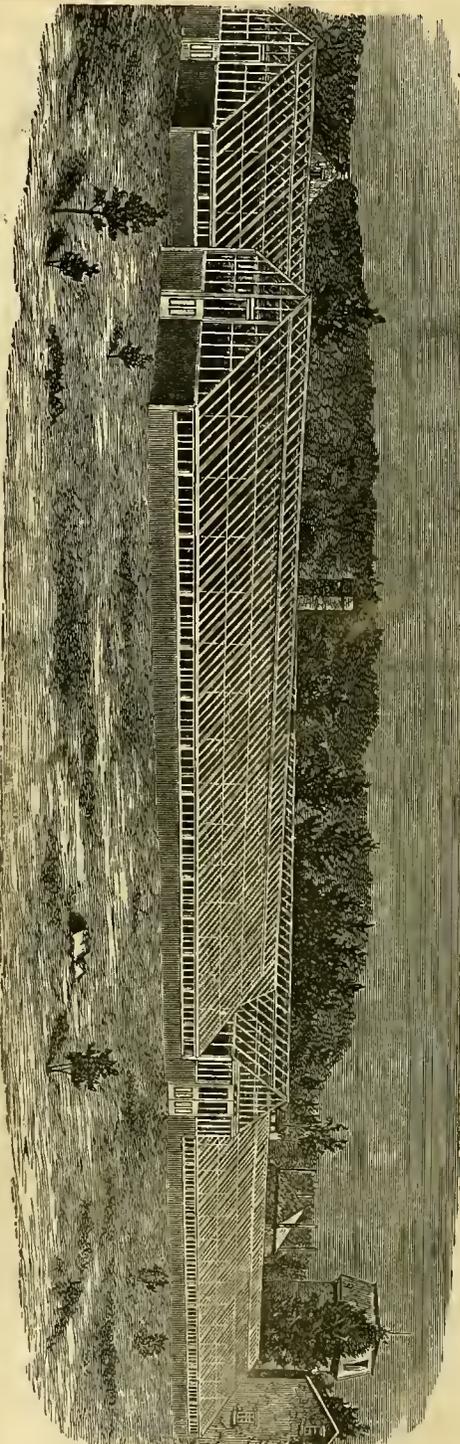
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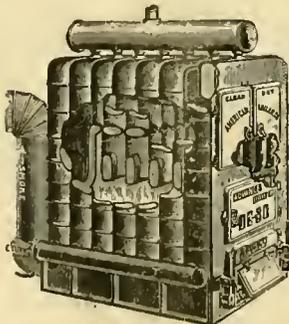
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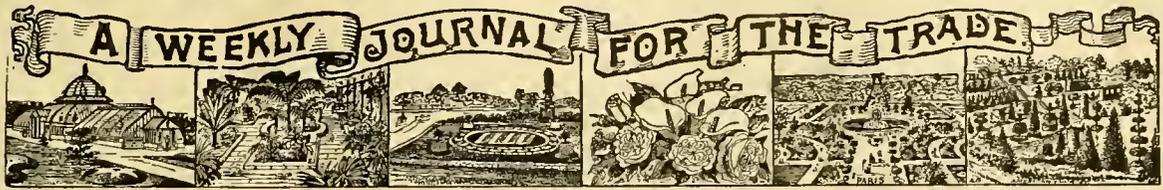
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THE AMERICAN FLORIST



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Vol. X.

CHICAGO AND NEW YORK, DECEMBER 8, 1894.

No. 340

THE AMERICAN FLORIST

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PUBLISHED EVERY SATURDAY BY

THE AMERICAN FLORIST COMPANY,
322 Dearborn Street, Chicago.

Subscription, \$1.00 a year. To Europe, \$2.00.

Address all communications to

AMERICAN FLORIST COMPANY,
P. O. Drawer 164, CHICAGO.

Eastern Office: 67 Bromfield St., Boston.

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BEATTY, Oil City, Pa., treasurer. The fifth annual
meeting will be held at Pittsburg, Pa., August, 1895.

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MR. H. B. BEATTY, secretary of the F. P. A. and treasurer of the S. A. F., is at a Michigan health resort. He writes us that he has not seen his mail for months and that unfortunately the young lady who was familiar with the details of his society correspondence has removed from Oil City, thus for the time being stopping all business in that line.

YOU CAN never invest \$2 to better advantage than in a copy of our trade directory and reference book.

The Influence of Florists' Clubs on Horticulture.

BY MR. P. O'MARA, NEW YORK.

[Read before the Gardeners' and Florists' Club of Boston, December 1.]

It will, I think, be admitted without question that florists' clubs have exercised a potent influence for good on horticulture in the United States. What then is there to say on the subject? At the outset, it is well to remark that in speaking of the work of florists' clubs I have borne in mind the fact that private gardeners—who are essentially florists also—constitute an integral part of these clubs, and are entitled to a great share of the credit due them as organizations. In considering the subject of the influence of florists' clubs on horticulture, it presents itself to me in three forms—the past, the present, the future; or, in other words, what the clubs have done, what they are doing, what they may do in that direction. The first and second phases of the subject being purely historical, I do not propose to tax your patience by a recital of what has been accomplished, or what is being done. It is meet, however, that in passing some tribute be paid to the clubs who have done and are doing so much to advance the knowledge of our beautiful art among the people of this country and Canada. All honor to the men of Boston, New York, Philadelphia, Chicago, Baltimore, Indianapolis, Toronto, St. Louis, Montreal and numerous others throughout the country. May their efforts be rewarded with the success which must follow unflagging zeal and enthusiastic endeavor.

The third phase of this subject opens a broader view. The future is ever endowed with a vast perspective, the sun of promise; it is full of hope, for better things illumine it, of probabilities and grand possibilities, and I will be bold enough to point out a few of these as they present themselves to me. Have the clubs done as much as they are capable of doing? Are they working along the right lines? Are they using their influence to the best advantage toward the desired end?

In the first place, I think it should be the duty of a florists' club, wherever established, to encourage the organization of amateur horticultural clubs—that is, clubs composed entirely of amateurs—men and women who have a love for horticulture and who do their own gardening. If a sufficient number can not be found to organize a separate body, take them into the club as honorary members, and foster the horticultural spirit that is in them in every way. They will add strength to the club, and when the proper time arrives, when they are in sufficient numbers, they can, I believe, be induced to form a separate organization, either auxiliary to or in full partnership with the parent body. Every private gardener

should make it a special object to induce his employer to become an honorary member of the club with which he is affiliated, or an active member of the amateur society, if one is organized. Such a consummation must bring good results to him personally and to horticulture. It is needless to add that every private gardener and florist should be in some organized horticultural body.

Exhibitions furnish the great means by which the clubs can influence horticulture. They are the executive arm, so to speak, and as the practical working details are generally in the hands of the clubs they can use them to mould public opinion—to educate the great horticultural public in almost any direction. It is fair to assume that the basic principle of all our exhibitions is educational—to lift the public up to better things by showing them what cultural skill can accomplish. But is this principle followed out to its logical conclusion? I think not, and I will attempt to show wherein, in my opinion, we fall short of the ideal, which is undoubtedly present to the view of each and all of us. It is generally assumed when preparing for an exhibition that when the premium list is made out, the exhibitors assured, the music engaged, the advertising, as now conducted, looked after, that the program is completed and the last effort possible is made. But is it? "That's the rub." I think it will be admitted that as a musical festival our exhibitions fall far short of the ideal, and can not compete with the same article which may be heard for the same admission fee in nearly all our great cities. What then is there to attract? Splendid flowers, which seem "sour grapes" to many, nay, most of the amateur visitors, considered in a horticultural sense, and from which they turn away with a sigh when they think of their own modest little blossoms, brothers and sisters of these stately beauties, but oh, so different, and they look upon these great blooms as the result of some occult science, some magic, the secret of which they can never read. We make the great mistake, I think, of not having a primary as well as a senior class.

Another weakness in our exhibitions as now conducted, in my opinion, is that there is an overpowering sense of "still life," a monotony broken only by the music. People feel the weight of it, and weary rapidly. The horticultural public, the sight-seeing public, expect more, are entitled to more and demand more, and it is to the interest of the clubs to supply it. I believe that a step was made in the right direction when the firm with whom I have the honor to be connected inaugurated the potting contest at the chrysanthemum exhibition in Madison Square Garden, New York, in 1891. Much more could have been made of it had the committee in charge been fully alive to the

true importance of it; but, even as it was, it furnished a text for the newspapers, and advertising was obtained for the exhibition that probably could not be bought for one thousand dollars. We all know how difficult it is for the brightest reporter to make readable copy regarding a flower exhibition for any of the great dailies in our large cities. With the best of intentions and supplied with the best material which the officers of the clubs or the press committees can give him, he generally succeeds by making it ridiculous. Not so in this case; he was in his element and made the most of it. Why not supply more of the same material? Horticulture is full of interesting operations about which the public know little or nothing, and no doubt if they were performed before their eyes they would look on with avidity, be interested or amused, but in either case it would be education. People are always interested in deft handiwork. We have, many of us, no doubt, been held spell-bound ourselves before some shop window in looking at a man pulling candy or making cigars, simple as the operations are, and yet we possibly had no personal interest in them. At the great World's Fair in Chicago wherever a wheel was turning, a shuttle throbbing, or a man or woman engaged in handiwork of any kind, there was sure to be a crowd, while the "still life" exhibits, imposing as many of them were, were practically ignored. I saw crowds gazing at the traveling lawn sprinklers, and, as a consequence, their attention was directed to the plants on the lawn, which otherwise they might never have seen and undoubtedly would not have perceived. Here is a universal trait of human nature which apparently has been overlooked in our exhibitions, and it is time we should awake and take advantage of it.

What, for instance, could be more interesting than to have a booth where budding and grafting would be performed, and a member of the club, competent to explain, constantly there to answer questions relative to the operation? Samples of budded roses and others on their own roots should be on hand, and instructions for planting the former given, pointing out the difference between the two, and explaining how it is that the stock sometimes grows, and when left to develop ultimately kills the true rose. A plant with developed "suckers" could be shown to fully explain this matter. When we consider the thousands of these that are sold annually and the great number that are lost through ignorance of the purchaser, the importance of it may be estimated. A booth where cutting making would be going on, with a man to explain the process by which nature perpetuates plants by this method; he could also give general directions regarding the care of them and the best time to put in the various plants. A booth where pruning would be explained; in fact several of them for the various kinds of plants. Charts could be used to good advantage here, some showing the various fruit trees properly and improperly pruned and planted; small fruits of all kinds as well. Here is where people are vitally interested, and incalculable good would be accomplished by it. Suburban residents would, without question, find it profitable and pleasurable to attend exhibitions where manual art lessons in horticulture would be given. A booth where seed sowing would be performed and explained, both flower and vegetable. Here is a wide field for practical work, and I am sure that the importance of it will be

realized. How many bright dreams of amateur horticulturists have ended in disappointment for the want of rudimentary knowledge in this line. It is essentially the duty of the clubs, composed as they are of florists and nurserymen, seedsmen and gardeners, to impart this knowledge, and the exhibition is above all the place they can do it.

These are only a few of the many things which would add interest to exhibitions, and which would assuredly attract people to them, just the class of people too that we want to visit them, the people to whom we must look for support in our business ventures.

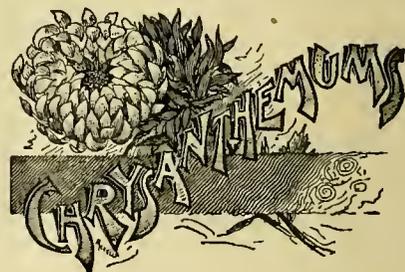
There is another branch of horticultural knowledge which should receive attention and aid should be solicited from the agricultural colleges and experiment stations in carrying out this part of the program. I refer now to insects and plant diseases. At the recent flower and plant exhibition in the rooms of the Farmers' Club in New York a chart was shown upon which were specimens of chrysanthemum foliage which had been attacked by various diseases. This was exhibited by the Cornell University and attracted marked attention. Similar charts bearing on various diseases should be found at all our exhibitions, and some one should be found to attend who would explain them and who would also explain known remedies for their prevention and cure. This branch would not only interest and instruct the amateur, but would also be of the gravest interest to the professional florist and gardener.

In this connection, I will digress for a moment to say that all the leading clubs of the country could, in my opinion, with profit to themselves, employ a vegetable pathologist and entomologist, whose services would be at the disposal of the clubs for the benefit of its members. Here would be special inducement for all florists and gardeners to become members of such clubs, and it is no exaggeration to say that it would prove a profitable investment. His duty it would be to examine and report on plant diseases at each meeting of the club, to attend the exhibitions for the same purpose, and to look after the individual interests of the members when their crops were threatened by diseases. The time is at hand, I believe, when we must invoke the aid of science if we would meet the enemies of plant life quickly and energetically, and this method seems to me to be a practical one.

In connection with our exhibitions I think a room should be devoted to object lessons in plant growing. For instance, a "pot bound" plant and one that had been shifted at the proper time. Sample plants bearing on the all-important question of watering. A plant grown in ordinary garden soil, such as an amateur gardeners too often use, and the same variety grown in prepared soil, with samples of both grades of soil. Plants treated with special fertilizers and without. Chrysanthemums, carnations, etc., disbudded and grown naturally, and many other phases of plant growing, which would suggest themselves. All this would be highly interesting to amateurs, would break the monotony of an exhibition as now held and would increase the respect for our calling among the people. What a text all this would furnish for the reporter visiting the show, and what an inducement it would be for people to visit it.

Now the question presents itself: Have florists anything to fear from spreading knowledge broadcast? For my part I answer an emphatic no. It is my belief that every garden in good order is an

inducement to some one else to have one like it; every healthy, beautiful plant an eloquent advocate for a companion; and, as a necessary corollary, every untidy ill kept garden, every sickly, miserable plant is a deterrent to those who see them and who may aspire to have one. The wider we spread horticultural knowledge, the broader is the field we have to work in, and the more profitable it will become. Ignorance of the needs of plant life on the part of the great mass of our people is, I believe, the greatest obstacle in the way of a more rapid advancement of all branches of horticulture. Let in the light at every opportunity. Consider the vast number of catalogues issued annually in the country by the seed and plant houses, and by comparison the infinitesimal number of horticultural journals distributed. Is it because the people who sow and plant feel they know enough about it? No, but because the absolute want of knowledge has not been brought home to them nor the means to acquire it presented to them. Let it be the duty of the florists' clubs to begin this great work on proper lines. Let them supply through exhibitions the knowledge the people want, and through the horticultural and daily press it will be carried afar and fall on good ground, resulting in undoubted benefit to the disseminators. As knowledge is diffused the love of horticulture must increase proportionately; people will procure more from the growers to satisfy this love; the standard of excellence will be raised, and florists' clubs will then exercise the influence on horticulture which will be theirs by right of the efforts they have made to bring about these results.

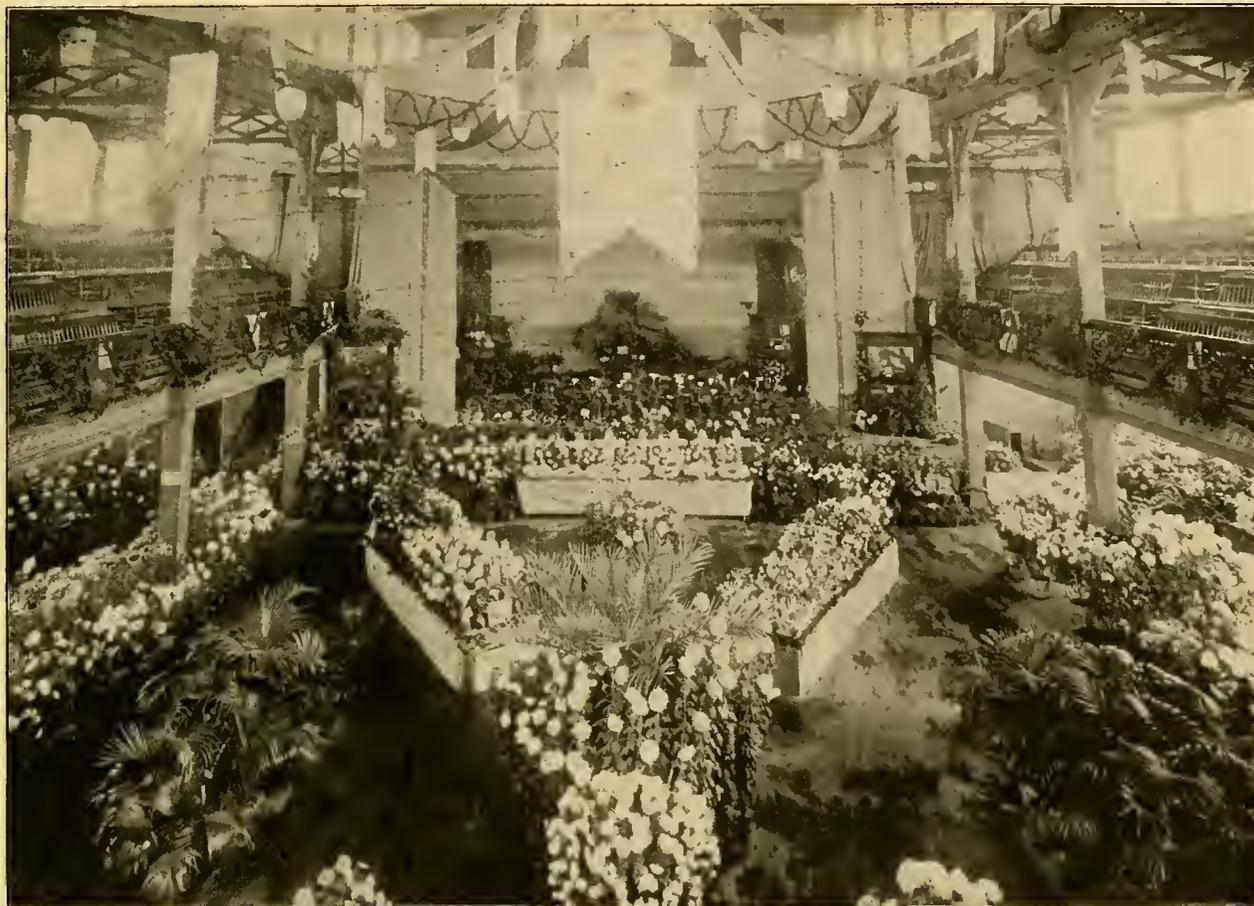


Chrysanthemums in the Solid Border.

Any grower reading Mr. Hill's remarks on bench-grown chrysanthemums would naturally come to the conclusion that no good thing can come out of the solid bed system, and that the grower who adopts it must be considered a "back number." Perhaps so, certainly the modern greenhouse has the advantage in many ways, but as a matter of course good chrysanthemums can be grown in solid beds. Several years ago a number of prize winners exhibited by me at New York, Orange and Philadelphia were grown in solid beds. They not only lasted well all through the shows, but some of the flowers exhibited at New York also did duty at Philadelphia, while, at a succeeding show, flowers grown on benches could not pass muster the third day.

The chrysanthemum is not a hot house plant; it needs its head as well as its feet kept cool. It is also a surface rooting plant, and if grown in a bed does not require heavy mulching and watering, as when grown on a bench. During summer benches require much watering, and each drenching carries away much of the soluble plant food, so a heavy application of manure is needed to keep up vigor.

I notice the high honors accorded to Mrs. E. G. Hill on the other side, and I feel sure it received much cooler treat-



PARTIAL VIEW OF THE TORONTO CHRYSANTHEMUM SHOW.

ment there than here. I am very well pleased with it from late-struck cuttings planted in the solid bed the latter part of June. I cut my first flowers October 9, receiving \$5 a dozen for them in New York the first few days. WM. TRICKER.

View of the Toronto Show.

The photograph (which was taken by Mr. A. Beales of Carlton street) herewith sent takes in not quite half the show. The roses 10 of a sort, vases of 25, 12 and 6 of chrysanthemums and six or seven entries of 12 distinct varieties, with more than half the specimen plants are not visible.

In the middle group is a large specimen of W. H. Lincoln shown by Mr. J. H. Dunlop which took equal first prize with another specimen of the same variety shown by Sir Casimir Gzowski (gardener Mr. R. Marshall). On the right hand table were the carnations, with a vase of "Philadelphia" and some other seedling chrysanthemums. On the left hand table were three entries of 25 chrysanthemum blooms in 25 varieties, at the back of which are five magnificent vases of 50 roses. On the middle table under the stage are part of the designs and baskets with a group of chrysanthemums and foliage on either side. Just above these on the stage were specimen ferns, orchids, cyclamen, etc., backed up by large pots of calla, a decorated mantel on either side. At the back of the stage in the middle was a large latania, the tub banked with ferns and *Cattleya labiata autumnalis* (from Exhibition Park) with decorated mantels again on each side. The stage had a most charming effect by gas light. E.

A Parting Shot.

And so King "Mum," like the Arab, has again folded his tent and silently bled away; but his victorious march, trophies, and all are still fresh in our minds. Many have fallen on the way, gallant knights of '92-3, who lie almost forgotten on piles of rubbish, or rotting in stagnant heaps, chilled, frozen, lifeless.

And have you noticed the brilliant corps of Amazons in his train—princesses, ladies, mademoiselles and mesdames? What more splendidly arrayed than an army of "mums"? The king of gloriousness has disputed every inch of supremacy with the queen of grace and beauty. His majesty usurps every place of honor, and his sway, transient though it may be, is at the same time absolute and sweeping. The blood red petals of a Meteor rose have been ruthlessly trodden under foot. American Beauty has temporarily shared the fate of Li Hung Chang, and even the divine flower withers in disgust at the mere sight of a chrysanthemum.

The Japanese army has pretty much everything its own way at the present time: Victory is perched upon its banners in spite of the few Chinese strongholds that remain. It really looks as if progress was in coincidence when these two great classes hybridize, assimilate and unify.

Well, "good riddance," chrysanthemum! You rank despoiler of the flower market! "Though lost to sight, to memory dear." There is no doubt about that. I haven't made a cent on my rose crop since you befooled the public with your brassy tongue of supremacy. Humbug! And yet I love your curly golden locks and bow

down and worship along with your other legions of devotees.

But, good-bye, I say, and I've no tears to shed. You have depleted my pocket, eaten and drunken at my expense, dined sumptuously, feted and honored, AND I haven't a cent to show for it; fact! The only way I can strike a balance in your favor is to turn the ledger upside down, and look for the credit on the debit side.

For all that, old blusterer, come again. I'm laying for you next time, and all your frowsy clan. And come early; don't wait for the chill winds of autumn to tangle you all up. Come in mild September. I want to steal a march on the other fellows. Come and see me first.

Honestly, here along in December I'm tired of the very sight of you. You're a back number. A weary, bedraggled chrysanthemum! Don't wear out your welcome—be off with you! Good-bye—au revoir. R.

Measuring Chrysanthemum Flowers.

The florist who has never attended a large flower show is likely to be confused when he reads of chrysanthemum flowers on exhibition that are ten, twelve, or fourteen inches across; and perhaps feels mortified, when he looks at his own flowers that are five or six inches in diameter.

It will be consolation to such to know that these enormous measurements are obtained by beginning at the tip of the florets on one side and carrying the line over the crown of the flower down to the tip of the florets on the other side side, two-thirds of the distance, in some flowers, representing depth and not width

the measurement not being the diameter, as he may have supposed, but often more than the half circumference.

I think it would be better in all cases if the measure given was the extreme width of the flower, the depth being mentioned separately, when necessary. Visitors to a flower show, are apt to feel that they have been imposed on if they read of chrysanthemums fourteen inches over and find on examining them that they are only six or seven inches through.

The plan of the FLORIST in its illustrations of vases of chrysanthemum flowers of having a line or scale below—similar to those in most entomological drawings—for comparison, is a good one.

Our own measurements, are made in this way: On a sheet of stiff cardboard a number of circles are drawn, half an inch apart, from a common center, and the diameter marked beside them. From one side to the centre a narrow slit is made, wide enough to admit the stem of the flowers. The card is drawn up close beneath the flower, and the measurement can be read at a glance.

We hear many complaints of the chrysanthemum disease, of rust, of curled leaves, and of leaves falling prematurely, and I have learned that when I buy a few new varieties, if I do not throw them away because they are diseased, I usually must grow them for two or three years before they acquire health and vigor. This lack of vitality must be caused by improper treatment, by coddling, by too much forcing, and by over-stimulation.

We are told by some authorities on chrysanthemum culture that at a certain stage in the plant's development it must be fed liberally with liquid manure, two or three times a week or oftener, and the composition of this liquid food must be varied according to certain rules. As evidence that this treatment is unnecessary, and perhaps injurious, I wish to cite from our experience this season, which only confirms my previous belief. On one raised bench nearly 1700 plants were set in a moderate depth of fairly enriched fresh soil. They were kept clean, carefully watered, disbudded, and tied as needed, but were not given any additional food, either liquid or dry, beyond what is contained in ordinary hydrant water. But two plants were removed as being unhealthy; all the others were strong and vigorous, retaining their fine green leaves to the ground. The flowers, with scarcely an exception, developed perfectly, were of good substance and lasting, and were all of fine large size, for the varieties, many of them being more than twelve inches across when measured over the hill top, in the usual way.

Franklin, Pa. W. T. BELL.

[In reference to measurement of blooms would it not be well for the Chrysanthemum Society of America to give this matter consideration, and prescribe some uniform plan of measurement.—ED]

Chrysanthemum Plants for 15 Cents.

A St. Paul subscriber sends us an adv. of a local department store in which appears the following:

In connection with our great Thanksgiving sale in all departments, the "Plymouth" Boys' Clothing Dept. will sell 3,000 Choice Chrysanthemums in four, five and six-inch pots, at the ridiculously low price of 15c and 25c each.

They are all first-class and desirable plants, in good condition, large and bushy, in flowers and buds, and would easily sell by florists at from 35c to \$1.25 each.

Thirty-five and fifty-cent kinds for 15c; the seventy-five cent and one-dollar kinds for 25c.

As the "Plymouth" wishes every past and future patron to receive the benefit of this opportunity, only two can be sold to any one person.

He writes: "I wish you would express in the FLORIST an opinion as to whether such sales are a benefit or an injury to the trade. I have not seen the plants, so of course do not know as to their condition. But it would seem that if they are as represented the grower should realize a much better price for them than the figures given in the adv."

We would not feel like encouraging such sales. We know it is held that they diffuse a love of flowers among the people by placing plants within the reach of those of moderate means, but like all bargain sales the stock is largely trash that cannot possibly give satisfaction, and from which no good can result. We think the department store problem will soon work out its own solution. In several of the large cities it has already been solved so far as the stores that have tried a floral department are concerned. A very brief experience with stocks of plants has been more than sufficient for the shrewdest managers of such stores.

Two New Chrysanthemums.

The two varieties figured in this issue are seedlings originating with E. G. Hill & Co., shown for the first time this year. Louise D. Black, a rich yellow which received special mention in the seedling classes at the Chicago show, may be described as resembling Mrs. L. C. Madeira, but is much brighter in color and stiffer in stem. It is a very solidly built and showy flower.

Henry Reiman is another yellow, rather suggestive of Challenge, but an improvement on that variety. It is high built and solid, developed right to the center, and borne on fine stiff stems. It seems likely to be very useful commercially.



Carnation Notes.

"Well, Charlie, why are your throwing out those healthy looking plants?"

"Just look at the flowers, only semi-double, and these plants came from stock that produced as fine double bloom as ever was seen, but that is the way with new sorts very often; they will sport, and so we must save the best, and thus work up a good type."

"Why do I cut off those few branches? Well, if you will hold that up to the light you will see a few light streaks through the leaves; that is bacteria, a diseasesome claim, but it seems to me a weakness caused from certain conditions which I can not explain. Now it is best to remove all such leaves from the plant by cutting the branch upon which they are well back; this generally stops the trouble."

"Say, my boy, it is too cold in these houses for me, as I have a cold, but why do you not keep it warmer?"

"Well, as you have a cold it naturally seems much colder than it really is. As it happens the mercury is up to 58°, and as this is a cloudy day remember too I dare not run the houses any higher. The stems are weak enough as it is. Two bright days only in a week are not conducive to stiff stems."

"Yes, I am taking off all the cuttings now which are large enough, and especially from the Scotts. Why? Oh, sim-

ply because those cuttings are large enough to root well, and then you see they retard the growth of the flower. Now there is a stem which was missed several days ago. The cuttings, or rather laterals, for they are not cuttings until they are taken off, have materially checked the growth of the bud. This point you will often see if you watch closely. I know it is the opinion of some of our leading growers that cuttings should be made after the flower is picked, and I have been doing so until a few days ago. Now I have no hesitation in saying that this plan is decidedly wrong if you wish to produce large flowers. Every side shoot and bud except the crown bud should be removed from the stem as far down as the bud is to be cut."

This query came to me several days ago: "What varieties would you advise me to grow in a house 100x20 for local trade?" Find out from your neighboring florists, if you have any, what sorts do best in your locality and what varieties are in greatest demand. You must grow four or five kinds; too many growers make the mistake of confining their attention to one or two standard sorts; I am one of them. We lack a healthy productive crimson, also a yellow. We have good whites, and pinks of several shades, but the former are not around. If the specialists in seedlings would only work for these we would be very thankful; and then for a scarlet we in this section are obliged to fall back on old Portia.

CHARLES H. ALLEN.

Miscellaneous Seasonable Hints.

It pays to disbud your mignonette and keep it tied up. If you don't disbud the lateral shoots will grow so fast that the flower will be small and short. There will always be plenty of shoots springing from the bottom to supply successive crops.

Don't neglect to stand over your imported azaleas and rub off the growth they are now beginning to make, or the new leaf growth will take the lead and the flower bud will perish, and your plant will be unsalable for this year. This premature growth as it may be called is caused I believe by the ocean trip; they are subjected to a warmer temperature than they would be in the houses, and when brought into daylight with a good soaking of water, which they must get, they make this early growth. On many varieties you will find a few long straggling growths; they are invariably blind shoots and should be cut back, for they add nothing to the appearance of the plant either in symmetry or in flower.

Cyclamens will soon be in their prime; don't keep them in a cool damp house where the thermometer goes down to 40° or 45° at night. A light airy dry house where the night temperature is about 50° to 55° at night is right, and never crowd them; a free circulation of air among the plants is of the greatest importance, and an ever watchfulness against aphids, which means smoke at least once a week. The greenfly always attack the young leaves and buds down in the center of the plant, and are difficult to dislodge if they once get a footing there.

Now you have plenty of bench room your cinerarias and calceolarias should receive attention. The earliest of these will be in their flowering pots, but the Easter lot, the most important, should now go into a 4-inch. Use chopped up and rather rough compost, i. e., not sifted soil, the water passes through it so much



CHRYSANTHEMUM LOUISE D. BLACK

better. An over watering often carries off cinerarias. Both the last named plants delight in a low temperature, but no freezing, 40° to 45° at night is plenty high enough, and will grow them all the sturdier. In addition to regular fumigation I keep tobacco stems loosely spread between the pots; it helps keep down greenfly very much, and both of these plants are easily hurt by too strong a dose of tobacco smoke.

If you have any *Cypripedium insigne*, and they are in full bloom, remove them to a cooler house, where the night temperature is not over 45°. They will last in perfection a long time. If your *Dendrobium Wardianum* and *nobile* have ripened their last summer's growth as they should, and have been for two months in a cool house you can bring on a few at a time to a warmer house, where they will soon send out their beautiful flowers.

I find I have a few cuttings in the propagating bed; some plants can't be produced in the spring by the thousand, and you must begin early. *Begonia Rex* should be in now; if much later the plants will be too small to be of use in the month of May, when you need them, and for certain places you do need them. *Strobilanthes* is another plant you want to propagate all you can, for you will find plenty of use for it in the spring. *Acalypha* should be propagated as largely as it can, for this fine subtropical plant is very satisfactory not only in beds but in veranda boxes, vases, etc. Whatever stock you are short of should now be propagated, for the conditions are now the very best for that operation, viz., a steady bottom heat, with a comparatively cool top heat, and little sun to wilt cuttings.

WM. SCOTT.

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

Cost of Growing Coleus, Cannas, and Geraniums.

The following is referred to me: "I would like to ask growers of bedding plants at what rate 4-inch, 3-inch and 2-inch geraniums, 2½ inch coleus and 4 and 5-inch cannas can be grown by the 1000, well grown plants. Standard varieties."

I believe this subject was well discussed 4 or 5 years ago in your columns. It's an interesting one, but one that it is impossible to give anything like a definite answer to, what I might say may be honestly and justly refuted by another grower, and yet we may both be right from our experience and method of growing. And does your correspondent want to know the cost without any margin of profit, or is it the price with a living profit put on? There are all these considerations and many more. Do you grow 1000 or 20,000? Are your customers satisfied with a weak drawn-up plant that has been grown as close as the pots would stand, or do they demand a good sturdy plant in flower and with leaves to the pot? It makes quite a difference whether your men or yourself can shift a 2-inch to a 3-inch or 3-inch to 4-inch at 100 per hour or 500 per hour. Still that is not of so much importance as the question how long do they occupy your benches. That is the vital question always. The late Mr. Peter Henderson told me that the most profitable plant he grew was *Coleus Verschaffelti* and undoubtedly he had proved it so.

Some 20 years ago we ran greenhouses a little differently. Geraniums then were allowed to occupy a good deal of room, simply because there was nothing to fill the houses with except carnations, and when the geraniums and other spring stuff wanted more room out went a bench of Degraw, Edwardsii or La Purite, Nowadays geraniums, coleus and cannas have to take a back seat till March or April. My own plan nowadays is this:

A house has chrysanthemums either in pots or grown for cut flowers till December 1. We will say "mums" are about gone, or most of them. Then in come lilies and azaleas. They are gone at Easter, then geraniums are put into their last shift, with us a 4 inch, and occupy the benches till the end of May. After the geraniums are gone your *Lilium lancifolium* in variety can be given good attention and pays for the mid-summer crop, or if you want to grow "mums" it will be time to plant those again as soon as the geraniums are gone, so there is no time when benches are empty. I will give what I consider the plants could be raised for providing you did it in a large way and were sure of a market. I hope some one will take this up and pull me to pieces; I rather like it and don't get as much of it as I could enjoy. The figures I give are not at what a man should peddle one-half a dozen geraniums and "charge it, please," but what he could dispose of wholesale by the thousand.

Geraniums, 2½ inch \$4 per hundred.

Geraniums, 3 inch \$6 per hundred.

Geraniums, 4-inch \$8 per hundred.

Cannas, 4 inch \$8 per hundred.

Coleus, 2½ inch \$3 per hundred.

WM. SCOTT.

Nitrate of Soda.

"Tisbut" asks through the FLORIST "how to use nitrate of soda as a fertilizer in the greenhouse and in the field, and also whether it can be used as a liquid."

This question might have been answered by someone who has used it more largely than I have, and I trust this may bring out the experiences of others. My knowledge of it in this country is only in the greenhouse. In solution the strength was one pound to one barrel (32 gallons) of water. That I am sure is safe. In Great Britain it is used much more extensively than here and is considered a fertilizer of high value, more particularly for all grain crops. They sow it broadcast at the rate of 200 or 250 pounds to the acre.

A little experience of my own very fresh in my memory may be worth relating. It happened a year ago while planting a bench of Grace Wilder carnation. I had about 1 gallon of nitrate of soda lying round and thought a little experiment would be just the thing. About the middle of the house I reserved a space as near as possible 50 square feet, sowing the soda on the surface and raking it in, and then planting the carnations. In less than one month 90 per cent of them were dead, while on each side of the defined line the carnations were as thrifty as carnations could be. Hereafter only in weak solutions for me.

W. S.

Snails and Fern Benches.

"A Subscriber" says: "I have tried lime and slug-shot both. First a sprinkling of lime on the soil and slug-shot on the fronds. Is there any danger of using too much slug-shot?"

I have no experience with slug-shot as a remedy for snails or slugs. Fine air slaked lime dusted on and among the fronds is an excellent thing to keep slugs away, and is, I believe, the remedy used by the large growers of *adiantum*. If your collection is not large you can catch most of the slugs by traps made of potatoes cut in halves. Dig out the potato till it is like an inverted egg cup and place them on the soil close to the plant. Inspect your traps every morning and you will find many of the slugs have found the

hollow potato a convenient roosting place for the day. Lettuce and cabbage leaves laid on the soil will answer the same purpose, but don't forget to let a boy go round every morning and collect the victims. W. S.

A Greenhouse Truck.

With four flanged track wheels out of an old threshing machine, two iron rods for axles, some blocks for bolsters and a board one foot wide by five feet long for a platform, we made a truck to haul material in the carnation houses for mushroom beds, which is so satisfactory to us that I pass the idea on for the benefit of others.

We keyed the wheels flange side out on the axle so as to use the board walk one foot wide for the track. Several boxes can easily be taken at a load and like other simple helps the wonder is that we didn't make it sooner. With a temporary track of foot boards laid on the benches I think it will prove of great use in changing the soil, etc., and will alleviate that "tired feeling" which strikes us sometimes. C. P. BARNARD.

Northbrook, Pa.

Dahlias Not Flowering.

A question comes from Jamestown, N. Y., about the above, and says their soil is a pine, oak and chestnut soil and gravelly, meaning I suppose that it is a light leaf mould deposit on top of gravel. If the plants grow vigorously and don't flower, as your subscriber says they do, it is more than likely that the soil is too much of a leaf mould texture. Dahlias grow and flower best in good strong loam, but well enriched with decayed stable manure. Our long dry and hot mid-summer is very trying to them, and they should always be mulched and receive 2 or 3 times a week a copious watering. Plants raised from cuttings will always flower earlier than the old roots. I would advise digging a hole for the dahlia plants in spring 18 inches wide and 1 foot deep; fill in one-fourth of the light soil, one-fourth of good rotten manure and one-half of a good loam. This seems considerable labor, but where dahlia flowers are wanted it will pay. W. S.

Mealy Bug Again.

The following comes from Kirksville, Mo.: "Is there any remedy for mealy bug on plants. I have tried hand picking, but that is of no avail. I shall try the kerosene emulsion, but is there anything else?"

Hand picking would be a very tedious job. Many valuable plants, such as palms and cycads, must be washed or rather sponged with the kerosene emulsion if they are badly affected with these pests. Soft leaved plants, such as coleus, which are often troubled with them, should be thrown out and a clean stock procured. The very best way to keep your place clear of mealy bug is a free and vigorous use of the hose; a good syringing they can't endure. This does not necessarily mean drown the plants, but a fine hard stream intelligently directed at them upsets their household arrangements sadly, and if faithfully persevered in mealy bug won't trouble you. W. S.

NEVADA, MO.—The chrysanthemum show here was very successful. It was projected by Mr. J. W. Talbot, the florist, and the local press warmly commends his enterprise.

Boston.

The annual exhibition of herbariums by the children took place at Horticultural Hall on Friday and Saturday, November 30 and December 1. Both halls were entirely filled with the collections, the exhibit as a whole showing a marked improvement over that of last year, and the work of drying and mounting being as a rule most beautifully done.

The specimens, of which there were about three thousand, were mounted on white sheets of uniform size, the common name, botanical name, habitat, with name and address of exhibitor being inscribed in a space provided on the lower left hand corner of each sheet. Native flowering plants, trees, grasses and ferns were most largely represented, the whole plant including flower and root being shown when practicable and tree leaves being mounted in pairs so as to show both upper and under surfaces. The various collections comprised all the way from ten or twenty up to one hundred and fifty species each, the premiums having been classified so as to give the smaller contributors a chance to compete. The exhibitors were about equally divided, boys and girls, and all sections of the state were represented but a majority of them seemed to hail from West Roxbury and Jamaica Plain, where this delightful study has been encouraged and stimulated among the school children to a greater extent probably than anywhere else in the country. The intelligence displayed and the intimate knowledge of the botany of our native plants shown by these youthful exhibitors is astonishing and almost beyond belief, and the indefatigable committee of the Mass. Horticultural Society in charge of this department have every reason to feel elated over the results accomplished.

There were two new ferns exhibited which were discovered by Raymond Doyle of Newburyport and named by Geo. E. Davenport of Medford. One was a hybrid between *Aspidium cristatum* and *A. marginale* found in Mass., and the other a new species, *Aspidium simulatum*, found at Indian Point, Me.

Thanksgiving Day is always counted upon to bring a pretty good demand in the flower trade, and this year was no exception to the rule. The day was exceedingly cold, the coldest for many years, and very careful packing was necessary, but the weather was clear and customers were out in gratifying numbers and as far as heard from the trade gave general satisfaction.

There was some disposition to hold back stock for a few days beforehand, but not to the extent done in former years and most of the stock sent in was fresh and good. Following Thanksgiving came three or four rather bleak and stormy days with a decided shortening up of the supply and prices have been full as high as and in some instances higher than those prevailing for the holiday.

Special premiums offered through the Mass. Horticultural Society have been awarded by the garden committee as follows: For the best kept garden, extent three acres, judged for three consecutive years, to N. T. Kidder. The best house of chrysanthemums arranged for effect, first to N. T. Kidder, second to T. D. Hatfield. For the best house of chrysanthemums grown on benches, first to Waban Rose Conservatories, and second to Wm. Nicholson. A special gratuity was also awarded to Chas. J. Dawson for a house of naturally grown chrysanthemums, and to C. V. Whitten for a bench of Ivory.

The December meeting of the Gardeners' and Florists' Club was a particularly interesting one as was evinced by the large number of members present to hear the lecture which it had been announced would be delivered by President O'Mara of the New York Florists' Club on the influence of florists' clubs on horticulture. The essay, which will be found on another page of this issue, was received with marked attention and the remarks that followed were all highly commendatory of the sentiments expressed by the essayist, Messrs. Dawson, Finlayson, Foster, Cotter, Norton, Elliott and others all speaking in an interesting manner of the new thoughts and ideas that had been suggested. It seemed to be accepted that the public interest in the practical manipulations in floriculture ought to be stimulated and that the more discussion cultural problems received in public the greater benefit would accrue to the trade. It was suggested that floriculturists have been inclined to be too secretive and too eager to retain the knowledge gained by their own personal experience, and that this policy was short sighted and unwise. A few more papers as practical and progressive as Mr. O'Mara's would undoubtedly prove the long looked for remedy for small and uninteresting meetings.

The business session of the club brought a surprise in the declinations of the president and vice-president elect to accept the positions to which they were elected a month ago. This unexpected predicament places the club in an embarrassing position and it will probably take the January meeting's whole time to put things in proper working order.

The presence in town of Mr. P. O'Mara, president of the New York Florists' Club, furnished a good opportunity for the payment of an election bet that Lawrence Cotter had won from P. Welch, which occasion consisted of a dinner participated in by a number of Mr. Cotter's intimate friends, with Mr. O'Mara as a special attraction. Mr. Cotter presided and introduced each speaker in his inimitable manner. Mr. P. Welch told how Mr. Cotter had forced him into a corner, a victim of circumstances, and how he had been obliged to back up his principles with a wager which turned out as usual in Mr. Cotter's favor. Mr. Ed. Hatch, Jackson Dawson, E. M. Wood, W. J. Stewart, Warren Ewell and others all made brief remarks with a unanimity of expression in welcome to Mr. O'Mara, and approval of those gentlemen who make such wagers, and thus became public benefactors. The absence of his perpetual adversary, Judge Hoitt, left Mr. Hatch free to give his whole attention to Mr. Norton and much fun was occasioned by his persistent but futile efforts to badger the latter into a wager, similar to the one then being settled. The exercises as usual closed with "Auld Lang Syne."

In *Garden and Forest* we find an interesting article by M. C. Robbins on the possibilities of flower shows in which the writer has something timely to say regarding the grouping and arrangement of exhibits and the necessity of harmonious and appropriate surroundings if an exhibition is to be made thoroughly artistic and pleasing as a whole. The lack of architectural attractiveness in the halls used for the Boston shows is commented upon, and that there is sufficient reason for the unfavorable comments must be admitted by anyone who has attended the exhibitions of the Mass. Horticultural Society.

An exhibition in these halls also suffers



CHRYSANTHEMUM HENRY REIMEN.

greatly from being divided and loses much of the impressiveness which would accrue from having the display complete on one floor.

Mrs. Robbins is incorrect, however, when she pleads in extenuation of Horticultural Hall's defects that it dates from "the early forties." On a marble tablet to the right of the entrance to the lower hall is the following inscription in plain letters: "Horticultural Hall, Dedicated September 16, 1865," twenty odd years later than the "early forties." Making due allowance for the time of its erection it can not be gainsaid that Horticultural Hall never was an appropriate or convenient place for the holding of exhibitions, a safe repository for a priceless library or a credit to the architects under whose supervision it was constructed.

Mr. Chas. Storer, the artist, is about to go into the florist business with Mr. Harrison of Pawtucket, R. I. Their greenhouses which are now being built are on the road between Pawtucket and Providence and are four in number each two hundred feet long, heated with Weathered boilers. Orchids, grapes and novelties will be grown.

Philadelphia.

Things are different, very different, a great change has taken place. Last week it was "what do you want" from the seller, now the query is from the buyer "what have you got?" and the question is not alone asked over the counter, but the hustlers are waylaid at the stations as soon as they set their feet in town, or messengers are sent out at daybreak to the greenhouses in order to insure a supply for the day. It is needless to say that this state of affairs is gratifying to all hands, there is a snap and vim to business which if it continues argues well for a prosperous season.

Thanksgiving Day trade was excellent, considerably better than last season, it had a Christmas smack to it. The Har-

vard—Pennsylvania foot ball game played on that day also created a great demand for flowers and there were not near enough violets and red roses to supply the demand, double violets being particularly scarce. It was a great day for the "mums" and many a grower cleaned up his stock for this occasion. Lincoln and Eva Hoyt were among the best sellers. Mr. Harris sold a small hay wagon load of Mrs. H. H. Battles which he had in quantity and his "Snorter" seedling, the large white with yellow eye which he had last Christmas. "After the Ball," was also in demand.

Carnations were good sellers, the demand was so great that they seemed scarce although there was a good supply. By the way, there hasn't been a complaint about "sleepy" pinks as yet, they can be kept several days at this season and still present a fresh appearance. Prices have stiffened considerably and \$1.25 to \$1.50 is now asked for good stock. Roses were in great demand with Beauty in the lead; \$3 per dozen was the current price, at this writing it is \$4, with prospects of a step higher in a few days. Selected teas of the larger class now bring \$4 to \$6, while the smaller kinds sell for \$3.

G. Anderson is cutting some fine Kaiserin. "Which do you like best, Kaiserin or Bride?" is now a question often asked; both varieties have their admirers, some claim that for general usefulness the Kaiserin is the best, as it is good all the year round while the Bride is worthless in summer (Foulds' excepted). Edwin Lonsdale says that Kaiserin with him is the most profitable, or we should say proves to be more prolific, than the Bride, and as they generally command the same price we presume the first assertion is correct. Paper whites and Romans are now to be had in quantity at from \$3 to \$4 per hundred, valley is plentiful at \$4.

Quite a number of the florists of the city and vicinity attended the lecture given by Dean Hole last Tuesday evening, his sub-

ject was "Famous men whom I know personally." On the desk by his side as he spoke was a vase of some two dozen American Beauty and Belle roses. The Dean is a fine specimen of manhood being six feet three and three-quarter inches in height; he seemed to be not over sixty or sixty-five years of age, yet he told his audience that the seventy-fifth anniversary of his birth would occur the next day. In opening his address he alluded to the beautiful roses at his side, saying they had been placed there by his brother florists of Philadelphia and that ever since he landed in New York and in his tour about the country he had continually met with such evidences of their good will.

Charles Fox of Broad and Master has sold his property and will remove to another location in the spring; the price was \$45,000.

John Walker is slowly recovering from an attack of bronchitis, which has kept him in the house for the past month.

There is to be another effort to establish a wholesale market in this city and a call signed by a goodly number of florists calls for a meeting to be held at the Florists' Club rooms on Tuesday, December 11th. May the movement blossom out and bring forth fruit abundantly. K.

Buffalo.

Thanksgiving was a good day. The weather was fine, enabling people to get about with comfort, and trade among the florists was the best it has ever been on that occasion. This holiday is beginning to rank up with Christmas and Easter, although a long way behind yet. It was a great chrysanthemum day and cleaned up the stock of the autumn queen at most establishments.

Now the "mum" is done for another ten months at least a slight report of how it has gone here would be in order; briefly then it has lost none of its popularity, on

the contrary good flowers have brought at least 25 per cent more than they did last year. No one has got tired of them and a larger class has bought them. No florist need fear that they are going to drop out of fashion; they are too grand and gorgeous for that, and instead of any florist wishing they did not exist we should all be thankful for their presence in October.

Mr. James Milley has had a grand lot of *Lilium Harrisii* for the past month. He seems always to be first in the field and does them well.

Mr. Christenson did not go heavy into "mums" but he has a grand house of carnations; his flowers are very fine and plants entirely free of disease. The varieties he grows are Daybreak, Sweetbrier, Silver Sprav and Wm. Scott. Finer flowers of old Silver Spray the writer has not seen in a long time, showing that this grand old variety is still good when well done.

The flowers greatly in demand at Thanksgiving, besides chrysanthemums, were carnations and violets, of which there was not enough to go round. Violets touched high water mark, \$3 per hundred retail. W. S.

New York.

They did, nobody believed they would be so unwise in these enlightened times, but they did, a big majority of them, hold back their roses for Thanksgiving. Not for a week or two as of yore but for a day or two and sufficiently to overload a market which was none too strong and to ruin any possibility there might have been of making the reasonable advance on market rates which the occasion and the approach of December might warrant. It seems almost incredible that men with the sagacity and common sense supposed to characterize the New York growers, and especially in the light of the uniformly adverse experience of previous years, should persist in this absurd and suicidal practice. Vigorous denials count for nothing until it is otherwise explained how it happens that the cut of an establishment averaging five, six or eight hundred roses daily drops to a meagre three hundred two or three days before a holiday and then jumps to fifteen or eighteen hundred on the day immediately preceding. Queer goin's on.

Thanksgiving Day was not much better than a Sunday as far as florists' trade in general is concerned. There was a rush on violets on that day as well as on the two succeeding days, the extra demand being caused by the college foot ball games, but it was not heavy enough to clean up the stock which had been unusually large for several days and had been in some cases held over. Had business been as lively as in some previous years there would undoubtedly have been a shortage of really good stock in most lines. There is quite a percentage of poor roses coming in, American Beauties especially being decidedly off in quality with some growers. Two growers who have reason to be proud of their roses just now are Littlejohn and Frank McMahon. *Harrisii* lilies are being received in larger quantities than has been customary at this early date. They are of excellent quality. Roman hyacinths are getting plenty, but not many narcissus are seen as yet.

F. Sander & Co. will have another big sale of *Dendrobium Phalaenopsis* *Schrodlerianum* and other useful florists' orchids at Rolker's auction room on Friday, December 14.

St. Paul, Minn.

A chrysanthemum exhibit was held in this city November 14 to 17 by Mr. A. S. Swanson. The entire exhibit, which was quite an extensive one, was made by Mr. Swanson and much credit is due him for the energy and enterprise displayed in conducting it.

One large store room was devoted to cut blooms and table and wedding decorations. The display of cut blooms was good and was augmented by some choice varieties from eastern growers. The decorations were nicely arranged, one table decorated with Testout roses and adiantum ferns being especially attractive. A bower of palms overhung by a large wreath of pink "mums" suspended by ribbon formed an inviting nook for Hymen's candidates.

A large room in the rear was well filled with pot plants and another large room in front contained a large and select assortment of all the leading varieties including the Chicago prize winners of last year and this.

The exhibition was not well patronized and was not a financial success. It is doubtful if Mr. Swanson cleared expenses. This is to be regretted as Mr. S. has always taken a great interest in florist circles and has done much to uplift the standard of growing and selling good stock and has been the first one in the city to give the people an idea of what a flower show is. An admittance fee of 25 cents was charged, one-half of which was donated to charitable purposes.

L. L. May & Co., in connection with their neighbors a book and stationery store on one side and a large music house on the other, had a fall and holiday opening November 22. The entire building, including offices, store and warerooms, were thrown open to the public for the first time. A band of music ensconced behind a bank of palms and ferns added to the enjoyment of the occasion.

The store was appropriately decorated with palms, "mums" and other pot plants. One of the large show windows contained a mantel decoration, while the other was lavishly supplied with cut flowers and potted plants artistically arranged. In the center of the large sales-room was placed a table finely decorated with a center piece of Mme. Testout roses while pink ribbons and pink roses indicated each individual place. Near this stood a smaller table with an immense basket of fruit decorated with ferns, bouvardias and other small flowers.

The second floor of their establishment is devoted to offices and their catalogue trade while the third is used for filling and shipping their wholesale orders. A large store room in the rear of their cut flower business on the first floor and a large light and handy cellar for their potatoes completes the establishment. Their new refrigerator is octagonal in form with large panels of French plate glass.

The monthly meeting of the Society of Minnesota Florists (which interpreted means the florists of the twin cities, though all in the state are welcome) was held in this city the evening of November 19. The meeting was well attended and an interesting session held. Gust. Malmquist, of Minneapolis, read a paper on the "Evils of Department Store Flower Sales," also quite lengthy extracts from articles published in a trade journal on the same subject. In substance he said that the important question now with the Minnesota florists was not how to grow good stock but how to sell it. Depart-

ment stores have reduced prices, hurt sales and threaten to ruin the retail store trade. In face of all this growers have built more houses and increased their facilities thus tending to reduce prices still further and to increase competition. Unless there is a change soon the smaller flower stores will be driven out of the business entirely.

The paper was then informally discussed by several, while all were agreed as to the facts of the case as presented in the paper opinions differed as to the method to be employed to counteract this dangerous rivalry, and the discussion ended without any apparent headway being made towards solving the hard question. One of the speakers maintained that the growing of the stock was the important question after all. That the best stock would always command good prices and that department stores with bargain counters were naturally looking for cheap and inferior stock and will buy it as long as it is grown.

A committee of three from each city was appointed to confer and report at the next meeting on a chrysanthemum show for 1895. The committee consists of Messrs. Nagel, Bartels and Malmquist of Minneapolis, and Swanson, Vogt and Souden of St. Paul.

Mr. Louis Wilde was appointed speaker for the next meeting to be held next month in Minneapolis.

A large retail clothing store has been selling "mum" plants at a 15 and 25 cents each and cut blooms at 50 cents per dozen. In their advs. they state that the plants, on account of their hardy nature, will stand several degrees of frost without injury. How soon this flowery inducement would congeal if exposed to a few degrees of veracity. FELIX.

Chicago.

A great scarcity of stock has prevailed all the week. Every line of stock has been extremely short, and it is not surprising therefore that prices have remained at the high water mark of Thanksgiving week. As compared with prices of a year ago for the corresponding week prices are double that of last year in most classes. Roses during the first week in December last year sold at from \$2 to \$3, with the lower figure as the ruling price, while in the week just past stock rated as barely fair in quality easily commanded \$4 to \$5. Although the weather is and has been exceedingly fine for a week past there seems little prospect for much increase in the supply for the next week or ten days. Crops of both roses and carnations are off, but the majority of the growers point to the probability of a full crop for the holidays. "Mums" have almost entirely disappeared; this of course accounts in a measure for the increased demand in other lines. It is needless to say that Beauties remain in the lead. This is the only rose that never at any time during the very worst of the chrysanthemum glut suffered for demand or declined in price in a material degree. The output of this rose is estimated at an increase over last year by about one-third, and yet scarcely a day passes when the stock isn't fully exhausted in the early morning hours. Meteors are beginning to show more and more that objectionable blue-black color which renders a good part of the stock unsalable. Mermets too are sadly off color, and in this condition are hardly salable even in the present scarcity of roses. The quality of Bride, Bridesmaid and Perle is somewhat improved. Testout

remains good and so is Kaiserin; the latter, though, is very scarce.

Carnations hold very stiff at \$1.50 for fair common, some fine lots of ordinary varieties selling as high as \$2, and fancy at \$2 to \$2.50. Violets remain away up on top. First quality command \$2 per 100, fair quality go at \$1.50; demand in excess of supply.

Shipping trade continues very brisk, local demand steady.

Alderman M. B. Madden is again at work on his plan for the extension and beautifying of the lake front park. His plan contemplates filling in the lake basin to within 750 feet of the government breakwater with the soil being excavated from the drainage canal and which is now being dumped in deeper water, thus adding many acres to the area of the park, the made land to be connected with the present park by bridges at grade, the railroad tracks to be depressed for the purpose. A striking new feature has now been added to the scheme, which is the reproduction of the Court of Honor at the World's Fair on the reclaimed land. It would require about \$10,000,000 to erect the buildings in white marble or granite, as proposed, but it is said that assurances have been given that the amount would be contributed if the site is secured. The committee of the Horticultural Society of Chicago will assist Mr. Madden to the extent of its power, and hopes to see a horticultural ball made a feature of the park if the project is successful.

Washington.

Thanksgiving trade was very good this season, most of the florists having disposed of their entire stock before the day was over, and stock was rather scarce. There was but a slight advance in prices, which may account for the good sales.

From present indications the demand for carnations this season is going to be very brisk. There are some very fine ones now on the market, and the price is advancing. Good flowers are bringing from 35 cents to 50 cents per dozen.

Chrysanthemums are mostly over, with the exception of a few late varieties. There are still some very good blooms to be had at \$3 a dozen.

Roses seem to be off crop about Washington at present, as none of the florists have enough home grown stock to supply their trade. In fact I may say roses are scarce. Poinsettias are with us again, though as a rule they are not up to the standard in quality. They are not much in demand yet, and are retailed at \$3 a dozen. Violets are rather scarce and in brisk demand. The price has advanced to \$1.50 per hundred. Romans are coming in quite rapidly and are very good. They sell at \$1 a dozen. Valley is not very plentiful, and the quality nothing to brag of, though it brings \$1 a dozen. Roses are sold by the florist at the following prices: Beauties from \$6 to \$9 a dozen, La France \$2, Brides and Mermets \$1.50 to \$2, Perles \$1.

The opening of the second session of the 53d Congress was as usual a red letter day with the florists. The floral display was something unusual. Nearly every desk in the house had some sort of floral piece on it. On some desks were huge bunches of Am. Beauties tied with ribbon, on others were La France and Brides, while on others were baskets of flowers.

The Senate looked like a wedding reception hall. The flowers were very profuse and beautiful. The largest piece, a tremendous shield of immortelles, across the

face of which were the words "New Jersey" in blue letters, was placed on the desk of Mr. Smith.

Among the conspicuous pieces was a school house composed of flowers, also a beautiful floral ship.

The efforts of the late R. J. Halliday of Baltimore to popularize *Russelia juncea* are just beginning to bear fruit. Mr. H.'s admiration for two handsome vases of this plant induced him to have them photographed and used to illustrate his catalogue some ten years or more ago. It does excellently well as a window or house plant, is very graceful and thrives in light rich soil and is easily propagated from cuttings. It is a native of Mexico.

Mrs. J. D. Sayers, the wife of Hon. J. D. Sayers of Texas, one of the leaders of the House of Representatives, says Roman hyacinths spread like garlic in her yard and that she has no doubt but what quantities of them will soon be grown in her state and the south for the northern markets. She has been experimenting with them the past few years and is more than pleased with the results.

Gude Bros. have added five houses to their plant at Anacostia. These houses which they justly term model houses were begun September 1 last. They are each 16x200 feet and are constructed on the most improved plans, glazed with imported glass 16x24 and have received three coats of paint. They are all piped and boiler is in position nothing remaining to be done except connecting the boiler with pipes. They did all the work themselves, not a mechanic being employed in their construction. It is certainly a credit to them; they claim that this is the quickest work on record. Three of these houses are already planted with carnation, of their own growing, which are the finest to be seen in the District of Columbia. One of these houses they are going to use as a palm house in which they propose growing their plants used for decorating. They see the necessity of carrying a larger stock of this class of plants and think it more profitable to keep it over from year to year and grow it on, than to put in new plants at the beginning of each season. Another of these new houses is to be used this season for violets; next year they will plant it with roses. Their roses are looking unusually fine, in fact everything about their establishment gives evidence of being managed by keen, wide awake men who thoroughly understand their business. Their violets are looking fine. They have a large quantity of bulbs for this season, while many cut their order for bulbous stock this year they have rather increased theirs. They claim that when the season opens for this class of flowers the people will demand it and will not be satisfied with any substitute. Experience they say has taught them this and they have made provision for it.

REYNOLDS.

St. Louis.

Trade during Thanksgiving week reminded all of the good old fashioned times that one hears so much of. Thanksgiving heretofore has not been looked forward to as much out of the ordinary, but if the future is to continue bringing the same demand it will take rank as an important day. The orders in were all placed early so that dealers knew what was coming, but in spite of this several were caught with stock in short supply. The excellent shipping orders for the few days preceding, and the good home trade shortened stock up considerably, so that everything

was sold out early on Thursday. Prices advanced a point about that time, but could not be laid to Thanksgiving; it was simply the increased demand prevailing during the week. All stock has been scarce since that time, owing to the week of dull rainy weather succeeding it.

Some few Romans are coming in regularly, and occasionally narcissus, but nothing like the amount that has been received during former years at this time. It would appear that the losses sustained during the last few years by bulb forcers have at last taught them to be more careful in regard to the quantity thrown upon the market. Violets have been in somewhat scarce supply, the main reliance being on home grown stock. Southern grown stock for some reason, presumably early frost, has not been received in any quantities as yet.

The sharper who was noted last week as working the various stores has been apprehended; he has been working the hotels for lodging and was caught by one of them. He expresses himself as being willing to take whatever punishment may be given him for his misdeeds, and will doubtless be set out of mischief for some time to come.

R. F. T.

New Notes.

LANCASTER, PA.—Wm. S. Barnhold has opened a florist store in the Postal Telegraph office.

TAUNTON, MASS.—A small conservatory belonging to Chas. Webster was damaged by fire on November 23.

PATERSON, N. J.—Fire caused a damage of about \$1,000 at the greenhouses of G. W. Vreeland November 21.

MEMPHIS, TENN.—The chrysanthemum show of the Memphis Floral Co. was a pretty well managed affair and attracted many visitors.

POSTORIA, O.—Mr. Fred W. North of the Postoria Floral Co. was married Thanksgiving day to an estimable young lady of Mt. Vernon, O.

KNOXVILLE, TENN.—The Knoxville Floricultural Society has decided to give a spring show. The chrysanthemum show came out about even financially.

BARRE, VT.—Fairview Greenhouses recently sold by Wm. Clark to a man named Austin have again been disposed of to Elton Wheeler and Mrs. L. P. Austin.

MOORESTOWN, N. J.—The warehouses and greenhouses of the Rogers Nursery Co. were burned on the night of November 25. Cause, the explosion of a lamp. An employe, James Davidson, was severely burned. Loss \$10,000, partially covered by insurance.

ROCHESTER, N. Y.—Bowling teams of nurserymen and florists had a warmly contested match November 29. The nurserymen defeated the florists in three games. The first and last games were very close, being won by only six pins each, but in the second one the florists were buried under a majority of fifty-three pins. The teams were made up as follows: Nurserymen, Charles F. Chase, H. C. Phillips, J. C. Sharr, F. J. Farber, George Jennv, Herbert Caudee, E. O. Graham and J. B. Howe. Florists, Charles Swift, Edward Vick, F. J. Keller, George Savage, D. Salter, J. Keller, Charles Vick and A. Salter.

DETROIT, MICH.—Mr. Harry A. Balsley was married November 14. The bride was Miss Mabelle Louise Reeves.

LONDON, ONT.—Mr. Chas. M. Greenway having taken the store formerly occupied by J. Dilloway, florist (248 Dundas street), put in a fine plate glass front and hot water heating apparatus, new counters and electric (incandescent) light. Has a handsome plate glass case 30 feet long for straw goods and supplies. The store was opened September 13. Mr. Will S. Greenway is as usual in good shape for "mums" in which he seems to excel.

SPRINGFIELD, MO.—A chrysanthemum show was given here November 6 to 10 by the Chalfant Conservatory, W. A. Chalfant, proprietor. Over 180 varieties were shown, including 56 of the novelties of 1894 in 3-inch to 12-inch pots and a large number of bench grown plants. Some flowers were very well done, as Mr. Chalfant easily captured the first prize for 45 blooms in 15 varieties at St. Louis. The show here was appreciated by several thousand visitors, florists and amateurs alike.

DAVENPORT, IA.—At the banquet following the recent chrysanthemum show the Tri-City Florists' Club was organized with officers as follows: Wesley Green, president; Charles Dannacher, vice-president; A. W. Vander Veer, secretary; J. H. Harrison, treasurer; Mrs. F. L. Bills, corresponding secretary. It was resolved that any resident of the tri-cities (Davenport, Moline and Rock Island) interested in floriculture might become a member by paying annual dues of \$1, and it was also decided to hold a chrysanthemum show in November 1895, in the Library block, and for the benefit of the Library association. Meetings will be held on the second Wednesday of each month, at 8 p. m. Committees were appointed as follows: Executive, W. H. Knees, Henry Gaethje, Mrs. C. M. Crow. By-laws, Wesley Green, John Temple, F. L. Bills. Program and entertainment, Mrs. Dannacher, Mrs. Knees, Mrs. Gaethje, F. G. Bahr, H. G. Pauli, C. M. Crow.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

SITUATION WANTED—As rose grower; have had 8 years' experience in growing stuff. Address G. care American Florist, Chicago.

SITUATION WANTED—By young lady in flower store; have had 2 years' experience. Address RUTHY, care American Florist, Chicago.

SITUATION WANTED—By a practical seedsman, nurseryman and florist competent to conduct any branch of business. Address O. care Am. Florist.

SITUATION WANTED—As assistant florist, by young man of 18; 2 years' experience in Soldiers' and Sailors' Orphans' Home. For particulars address "FLORIST" HOME, Xenia, Ohio.

SITUATION WANTED—By first-class all-round man, either as grower or traveler for good reliable firm; well known by all the leading men in the trade. "RELIABLE," care American Florist.

SITUATION WANTED—By a practical florist and gardener; not afraid of work. Private place preferred. Married, no children. First-class references. EDW. PALMEN, 1270 Vernon Ave., Chicago.

SITUATION WANTED—By a second man, commercial or private place. Well experienced also in landscape gardening. Wages moderate. Best references. F H H, 155 Harrison Ave., Boston, Mass.

SITUATION WANTED—As foreman in commercial place, wholesale or retail; thoroughly experienced in roses, carnations, mums, etc., etc. Address by letter only. GEO. BEAL, 2139 N. Diamond St., Phila.

SITUATION WANTED—By a single man, 9 years' experience in growing roses and chrysanthemums; steady and sober; capable of taking charge of commercial or wholesale place. M. care Am. Florist.

SITUATION WANTED—By a young man of Dutch nationality, in a large flower store, as a design maker. Fully experienced. Good references. Address ROSLIN CONSERVATORIES, South Frammingham, Mass.

SITUATION WANTED—By florist and gardener. S. first-class rose, carnation and violet grower, palms and ferns and general stock of greenhouse and outdoor plants; private or commercial; 18 years' experience, age 36, married, no family, English; good references. Address J. 67 Madison St., Morristown, N. J.

SITUATION WANTED—In a large commercial establishment in the northeast or east suitable for our former plan, C. Marks Wotton, to whom we wish to acknowledge the skill and ability with which he has conducted our extensive plant, to our entire satisfaction, and we now desire to see him advanced, which his zeal and perseverance deserves; state wages and size of plant. ANCHORAGE ROSE CO., C. Raynor, Manager.

WANTED—A young florist with \$150 to invest can hear of a good chance by addressing F. J. MCMANN, Menominee, Mich.

WANTED—PARTNER—Capable young man with \$1,200 to \$1,500 cash. Good opening. Within 150 miles of Chicago. BUSINESS, care Am. Florist.

WANTED—Office man and correspondent who is familiar with plant business. Give particulars to J. D. EISELE, Dreer's Nursery, Riverton N. J.

WANTED—Single man, American, rose and carnation grower, for San Antonio, Texas; wages \$25 and board; bring references. Apply VAUGHAN'S SEED STORE, Chicago.

WANTED—Assistant for market market garden and greenhouse; single; a Christian preferred. State wages with board. Give references. Commence March 1st. HARRY W. LEE, Alexandria, Ind.

WANTED—By a Philadelphia seed house, an experienced seedsman to manage retail counter trade. Address, stating age, particulars and salary wanted, PHILA. SEEDS care American Florist.

WANTED—A man experienced in the seed business to travel and during busy season to assist in store. One acquainted with southern trade preferred. State previous experience, age, references, and salary expected. Address SOUTH, care Am. Florist.

WANTED—Cut flower arranger to take charge of a cut flower department. Must be a fairly good maker-up, quick and energetic. Write, giving experience, references and wages wanted, and when can commence work to SAMUEL L. MARSHALL, Penn. Ave. near Sixth St., Pittsburg, Pa.

FOR SALE—Stock and fixtures of florists supplies. BERNHARD SELIG, Assignee, 113 N. 4th St., Phila.

FOR SALE CHEAP—Large second-hand florist's Ice Box, value about \$75. VAUGHAN'S SEED STORE, 88 State Street, Chicago.

For Sale or Rent.

My greenhouse establishment on Belmont Ave. near Western Ave. The place consists of 45 lots or 226 feet front on Belmont Ave. by 700 ft. deep, 3 cottages, two two-story frame houses, 22 greenhouses from 100 to 200 feet in length and from 12 to 20 feet in width. The whole place can be bought or rented. Can also be divided, 24 lots with the greenhouses on it, and 24 lots with the other improvements on it. The place is in good order, and a large stock is on hand; is one of the largest of the kind in Chicago. A good chance for some young man with some means, or for a corporation; and as I wish to retire from business, it can be had reasonable, and on easy terms. If rented, a long lease can be given.

AUGUST DRESEL, Belmont and Western Aves., Chicago.



New Catalogue (No. 4) containing over 1,000 Ornamental Cuts for Florist's use, such as envelopes, letter heads, bill-heads, cards, advs., floral designs, etc., at from 30c. and upwards. Price of Catalogue 25 cts. (deducted from \$1 order).

A. BLANC, Engraver for Florists, PHILADELPHIA, PA.

Please mention this paper.

GERANIUMS.

The BEST of the BETTER sorts, large stock of the single and double scarlets, all good bedders. Rooted Cuttings:

Labeled \$1.50 per 100; \$12 per 1000. Without Labels. \$1.25 per 100; \$10 per 1000.

Coleus and Alternanthera in season. ALBERT M. HERR, L. B. 496, LANCASTER, PA. Mention American Florist.

TOBACCO DUST.

Per 10 lbs 50c; 25 lbs \$1.00; 50 lbs \$1.50; 100 lbs \$2.50. Extra fine, per 100 lbs. \$5. Sample FREE. Vaughan's Seed Store, Box 688, Chicago. Mention American Florist.

A BARGAIN.

15,000

LATANIA BORBONICA, from 2-inch pots, 1 year old, fine plants, \$4 per 100; \$35 per 1000, CASH.

Must sell. Cold weather no hindrance to shipping.

GEO. WITTBOLD, 1708 N. Halsted St., CHICAGO.

Cheap to Close Out.

Per 100 BEGONIAS, fine assortment, 2-inch pots..... \$ 1.50 3-inch pots..... 2.25 HELIOTROPE, fine purple, 2-inch pots..... 1.50 FERNS, fine assorted, 2 to 4-inch pots..... 3.00 6-inch pots..... 10.00 AMPELOPSIS VEITCHII, potted cuttings..... 1.00 HYACINTHS, DUTCH, separate colors..... 2.00 ROMAN, white..... 1.25 LONGIFLORUM, 6 to 8..... 3.00 AZALEAS, fine imported..... 30c to 90c each. PALMS, fine young plants, assorted, \$5.00 per 100, from 3-inch pots. POTS, 30,000. Say what size you want and I'll make a low price. Everything f. o. b. here, and spot cash.

C. S. TAIT, Brunswick, Ga.

CUT FRONDS OF Adiantum Farleyense, \$15.00 PER HUNDRED.

PITCHER & MANDA (Inc.), Short Hills, N. J.

CUT SMILAX.

15 Cents per String.

Elegant Stock Now Ready.

THE NATIONAL PLANT CO., Dayton, Ohio.



Kills Mildew and Fungus Growth. What does? GRAPE DUST. Sold by Seedsmen.

Mention American Florist

SOMETHING of INTEREST TO

Market Gardeners and Truckers to be had for the asking. Write now for it.

Address JOHNSON & STOKES, Seedsmen, 217 & 219 Market St., Philadelphia, Pa.



TRY DREER'S GARDEN SEEDS, Plants, Bulbs & Requisites. They are the best at the lowest prices. Trade List issued quarterly, mailed free to the trade only. HENRY A. DREER, Philadelphia, Pa.

Mention American Florist.

WANTED.

A few customers for regular shipments of ROSES and CARNATIONS, now until June 1, '95, from one to three times weekly. Send for prices.

GEO. A. KUHLE, 708 S. 6TH STREET, PEKIN, ILL.

GREAT AUCTION SALE OF THE FLORISTS DENDROBE.

Over 2000 Imported Plants of
DENDROBIUM PHALAENOPSIS SCHROEDRIANUM,

Just arrived from F. SANDER & CO., St. Albans, England.

The above are in splendid condition and will be offered at auction, together with many other
showy, useful and popular Orchids,

By **August Rölker & Sons, Auctioneers,**
205 Greenwich Street, NEW YORK.

ON FRIDAY, DECEMBER 14TH, 11 A. M.

NOTICE:—This will be our last Orchid sale this season, and we hope buyers will embrace the opportunity of securing a stock of this valuable and most useful plant. Wherever Palms are cultivated it grows and blooms with great freedom suspended from the roof in pans or baskets. CATALOGUES MAILED IMMEDIATELY ON APPLICATION.

Siebrecht & Wadley,
ROSE HILL NURSERIES,



NEW ROCHELLE, N. Y.
Palms,
ORCHIDS,
Roses,

and New Plants.
FRESH DRACAENA CANES NOW READY.

ORCHIDS OUR SPECIALTY.

The Best and Largest Stock in the World.
New & Rare Foliage & Flowering Plants.
A grand selection for Stove, Greenhouse and Conservatory.

SANDER, St. Albans, England.

Our Mr. A. Dimmock will be pleased to interview buyers or reply to any communication addressed to him at 265 Greenwich St., New York City.

Grevillea Robusta.

Strong 2½-inch pots, 50c. per dozen;
\$3.00 per hundred.

**NATHAN SMITH & SON,
ADRIAN, MICH.**

Pandanus Veitchii.

Very large plants, 2 to 5 feet high, in
6 to 10-inch pots.

NICE RUBBERS—12 to 18 inches, 5-inch
pots, at a bargain. Write for prices.

BROWN & CANFIELD, Springfield, Ill.

CHAS. D. BALL, HOLMESBURG,
PHILADELPHIA, PA.
Palms, Etc.

A FULL STOCK IN THE BEST CONDITION POSSIBLE. STOUT, PERFECT PLANTS. ALL SIZES, UP TO ELEGANT SPECIMENS, AT REASONABLE PRICES. If you do not know the quality of my plants try some. There are none better. Price List on application. MENTION THIS PAPER.

ARECA LUTESCENS THE MOST GENERALLY USEFUL **PALM**

in commerce. We have them in all sizes, and Prices to suit.

CERTIFICATE OF MERIT was awarded for this sterling **Decorative Plant** at the convention held at Atlantic City, August, 1894. Send for price list.

EDWIN LONSDALE, WYNDMOOR STATION, Phila. & Reading
R. R. from 12th & Market Sts., PHILA.

**YOU CAN
MAKE MONEY ON
Flower Baskets
and Jardinieres.**

READ BAYERSDORFER'S HOLIDAY ADVERTISE-
MENT ON PAGE 461.

**GREAT BARGAINS
—IN—
Florists' Supplies.**

BERNHARD SELIG, Assignee

of **ERNST KAUFMANN & CO.,**

113 N. 4th Street, PHILADELPHIA, PA.

JAPANESE IRIS,

A splendid collection.

PHLOX,

In bright desirable colors.

PEONIES,

Choicest varieties.

Send for Catalogue and special trade prices.

OASIS NURSERY CO.,

Thos. Griffin, Mgr.

Westbury Station, L. I., N. Y.

Choice Florist Seeds.

Pansy, Calceolaria, Primula, Cineraria,
choicest strains, at 25 and 50 cts. per trade packet.
Special quotation on **BULBS.**

W. A. MANDA,

The Universal
Horticultural Establishment, SOUTH ORANGE, N. J.

ROOTED Verbena CUTTINGS

Ready for Immediate Shipment.

They are perfectly healthy, and the best
named varieties.

Price, \$1.00 per 100; \$8.00 per 1000.

J. L. DILLON, Bloomsburg, Pa.

WANTED.

Offers of nursery-grown **TREES** and
SHRUBBERY, at low prices; trees to
be from one to three inches in diameter;
shrubs to be bushy, and not less than
three feet high. Give lists of kinds,
sizes and prices.

Address **PARKS,** care American Florist, Chicago.

THE AMERICAN FLORIST

Subscription \$1.00 a Year. To Europe, \$2.00.

Advertisements, 10 Cents a Line, Agate;
Inch, \$1.40; Column, \$14.00.
Cash with Order.

No Special Position Guaranteed.

Discounts, 6 times, 5 per cent; 13 times, 10 per cent;
26 times, 20 per cent; 52 times, 30 per cent.
No reduction made for large space.

The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to those lines ONLY. Please to remember it.

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

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

Address THE AMERICAN FLORIST CO., Chicago.

Packing Flowers for Market.

The views expressed in Mr. C. H. Allen's carnation notes last week regarding the packing of blooms for market are well timed and in accord with the progressive spirit which should animate all growers who would strive to attain high rank in their profession. Volumes have been written and all the resources which ingenuity, experience and skill can suggest have been drawn upon in the effort to produce the highest perfection in quality at a minimum cost, but unfortunately here the effort stops with many, and much of the legitimate fruits of their labor is lost through the careless or ignorant after-handling of the stock. To be convinced that the advance in packing cut flowers has not kept pace with the progress made in their production, one needs only to make a morning visit to any floral establishment where flowers are received in quantity, and observe the shipments from the different growers, as they are opened. It matters not how fine the quality of the flower may have been, when gathered, if when it reaches the hands of the consumer it is discolored, bruised or faded. This is the time when quality counts for something. If a flower is good to start with, it pays to handle that flower as though it was the only one in the box. The fruit men have come to realize this. Peaches travel across the continent, every specimen in its separate wrapper of tissue paper; cherries are packed one by one in flats, as if each cherry were a jewel, and they arrive after travelling thousands of miles in better condition than they would have been in twenty-four hours, if heaped carelessly into a basket. This takes time, and adds no small item to the expense account, but the fruit growers have found out that it pays in the end. The cut-flower people have got to come to it, too. To none does this apply with more force than to the carnation growers. Mr. Allen's advice to them touches the right spot, and if literally followed will mark the beginning of a new era, almost, in the carnation business.

**W. ELLISON
WHOLESALE****Cut Flowers and Florists' Supplies**

WIRE DESIGNS.
1402 PINE STREET,

*St. Louis, Mo.

C. A. KUEHN,

(Successor to ELLISON & KUEHN),

WHOLESALE

FLORIST,

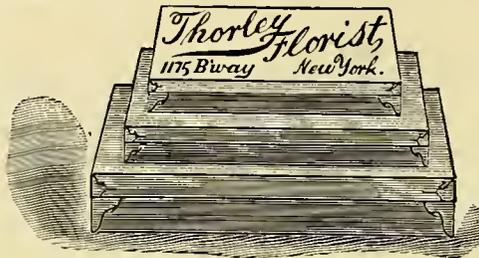
1122 PINE STREET,

St. Louis, Mo.

A complete line of Wire Designs.

WANTED.

I want growers of good CUT FLOWERS to know that I sell Flowers on Commission; that I charge 15 per cent. Commission on sales; that I furnish growers a statement each week of amount sold, and enclose check for the same.

CONSIGNMENTS SOLICITED.**T. J. CORBREY,**
COMMISSION FLORIST,**64 & 66 Wabash Ave.,****CHICAGO.**

The boxes as they appear when set up for use.

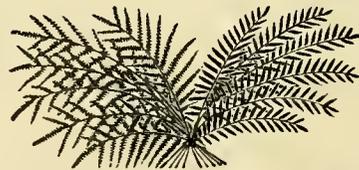
We make them in a sufficient number of sizes, including for violets, to meet all necessary requirements.

THE NATIONAL FOLDING BOX & PAPER CO.,NEW YORK SALESROOM:
132 & 134 Franklin Street.

315--325 Congress Ave., NEW HAVEN, CONN.

FOR DECORATING, NOTHING CAN EQUAL**ASPARAGUS PLUMOSUS NANUS.****CUT STRINGS 8 TO 12 FEET LONG, 50 CTS.**

Shipped in large or small quantities to any part of the country. Orders by mail, telegraph or telephone.

W. H. ELLIOTT, Brighton, Mass.**Hardy Cut Ferns,****BOUQUET GREEN,**

Laurel and Green Festooning, Wreaths, Etc.
SPHAGNUM MOSS IN ANY QUANTITY.

H. E. HARTFORD, 18 Chapman Place, BOSTON.**FOLDING
PAPER
BOXES
for CUT
Flowers.**

Made from Water-proofed, Double Manilla lined,
Strawboard. Shipped flat, packed 100 in a crate.

CHICAGO FOLDING BOX CO.,

Jackson & Clinton Sts., CHICAGO.

TELEPHONE MAIN 4718.

WISCONSIN FLOWER EXCHANGE,**WHOLESALE CUT FLOWERS.****FLORISTS' SUPPLIES.****WIRE WORK, OUR OWN MAKE.**

GIVE US A TRIAL.

VIOLET PLANTS, fine, clean stock.

468 Milwaukee Street, MILWAUKEE, WIS.

Phone 1571. P. O. Box 57.

OPEN TILL 8 P. M. SUNDAY TILL NOON

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

Z. DeForest Ely & Co.,WHOLESALE COMMISSION
DEALERS IN**CUT FLOWERS.**

Roses, Carnations, Chrysanthemums,
Valley, Violets, etc.

1024 Market Street, PHILADELPHIA, PA.

**SAMUEL S. PENNOCK,
Wholesale Florist**

REAR OF 42 S. 16th STREET,

Philadelphia, Pa.

Cycas Leaves. FRESH CUT each 75c.

VAUGHAN'S SEED STORE, P. O. Box 688, Chicago.

CUT SMILAX.

15 Cents per String.
SMILAX, from seed flats, 20 cts. per 100; \$1.50
per 1000. $\frac{1}{4}$ Million Seedlings.

JOSEPH E. BONSALL, 308 Garfield Ave., Salem, O.

The Seed Trade.

AM. SEED TRADE ASSOCIATION.

D. I. BUSHNELL, St. Louis, president; S. E. BRIGGS Toronto, 1st vice-president; A. L. DON, 114 Chambers street, New York, secretary and treasurer.

Boston.

At the December meeting of the Mass. Horticultural Society the following resolutions relative to the Distribution of seeds by the Department of Agriculture at Washington were passed by a unanimous vote:

WHEREAS, more than half a century ago improved varieties of seeds were sent out by the official then in charge of that work at Washington to farmers and gardeners of the country in order that such seeds might be tested and their practical value ascertained, either over others already in use, or as to their value for introduction and cultivation;

WHEREAS, we recognize that the present distribution of seeds from the Department of Agriculture does not meet the original intention, as herein indicated, and has grown to unreasonable dimensions (and has become a gratuitous distribution of seeds that the recipient often is unwilling to use) and cost of such distribution in 1893 having been \$160,000;

We, the members of the Massachusetts Horticultural Society, assembled by our representatives in our hall at Boston, respectfully recommend to the Congress of the United States that the present method of, and appropriation for, the distribution of seeds be abolished; and that in its stead an appropriation be made of sufficient amount (\$35,000 suggested) by which the Department of Agriculture can distribute to the experiment stations now located in almost every state and territory, such seeds as may to the said Department seem wise, and require a report upon the same from the stations, the stations to perform the required work under the appropriation provided for annually, and direct that the Secretary send copies of these experiments to each of our Senators and Congressmen, and the Secretary of the Department of Agriculture at Washington.

New York.

The rush is all over in the seed stores and there is nothing in prospect for the present except catalogue making, on which some are still busy, but which several have already completed, and these fortunate ones are "preparing for a six weeks' loaf," as one of them expresses it.

There has been a big demand and immense sale for mushroom spawn this season, far ahead of any previous record.

Visiting New York: Mr. Jos. Meggatt, Wethersfield, Conn.; Alfred J. Brown, Grand Rapids, Mich.; C. C. Morse and J. W. Kimberlin & Son, Santa Clara, Cal.

Mr. E. Schaettell of Vilmorin & Co. sailed for France per steamer La Bretagne on Saturday, December 1, after a three months' trip in America.

THE damp weather in England has delayed the drying and shipping of the seed crops of mangels, beets, nasturtiums, etc.

SWEET CORN prices are probably a shade easier, the harvest not proving as short as was anticipated.

THE Sioux City Iowa Journal reports that the Sioux City Nursery & Seed Co. have taken in 75,000 bushels of peas and beans this season.

A BREAK is reported in market on sac caline.

VISITED CHICAGO: C. C. Morse, A. J. Brown, H. A. Salzer, R. H. Shumway, C. E. Angell.

MR. W. ATLEE BURPEE has been ill for about three weeks. He is still weak, but improving. His physician prescribes rest and an extended trip. His many warm friends in the trade hope for his speedy recovery.

WITH rather a dull wholesale trade at present and while printed list prices are somewhat stiff, there seems to be more than the usual inclination at this time of the year to shade rates a little for immediate order.

MARBLEHEAD, MASS.—Mrs. Harriet Gregory, wife of Hon. J. J. H. Gregory died at her summer home at Middleton on November 29 of heart failure after an illness of about a month, at the age of sixty-five years.

DISSOLUTION OF CO-PARTNERSHIP.—The co-partnership heretofore existing between Charles Frederick Lohrman, Wilbur Brotherton and Philip Breitmeyer, under the firm name of Lohrman, Brotherton & Co., seedsmen, is this day dissolved by mutual consent. Frederick Lohrman and Philip Breitmeyer will continue the business under the name of the Lohrman Seed Co., which assumes all liabilities, and all outstanding accounts must be paid to them.

CHARLES F. LOHRMAN,
WILBUR BROTHERTON,
PHILIP BREITMEYER,

Detroit, Mich., December 1, 1891.

W. Brotherton will continue growing for the wholesale trade and locate about July 1 at 57 Woodbridge St., East.

FOR
THE
SEED
TRADE

**ONION SETS,
SWEET PEAS**

AND A GENERAL LINE OF FLOWER SEEDS, GARDEN TOOLS, ETC.

Cox Seed & Plant Co.
SAN FRANCISCO, CAL.,
**Seed Growers
AND NURSERYMEN.**

Contract Price List on application. . . .

**READY NOW.
Black Calla Bulbs**

Extra size, \$10.00 per 100.

CASH WITH ORDER.

CHAS. SCHWAKE,
404 E. 34th Street, NEW YORK.

OSCAR KNOPFF & CO.
Seed Growers, Erfurt, Germany.

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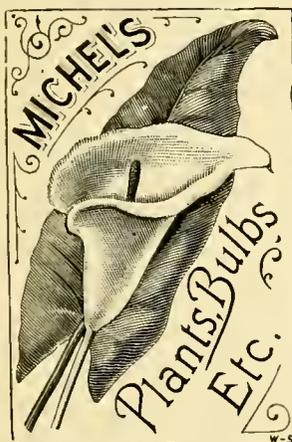
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I will here thank my florist friends for the many letters of commendation received during the past year.

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Toronto.

The regular meeting of the Gardeners' and Florists' Association held last week was largely attended, many of those who have been rather remiss in their attendance lately being present. With the exception of general congratulations all round at the success of the chrysanthemum show and the nomination of four and the election of two new members not much business was done, and the meeting adjourned early until the 18th inst., when the annual election of officers for the ensuing year will take place. Mr. H. A. Bunyard (whom I omitted to mention was present at the show) read a parody of his own composition on the well known poem, "My Mother," entitled "The Florist." It will no doubt shortly appear in print.

Business which since the cold weather set in has been quite lively seems from some cause or other which "no feller can understand" to have fallen off greatly this week. "The bottom has fallen out of it," "It's rotten," and other choice remarks to the same effect are heard on all sides. Probably it is only because people are saving up for Christmas.

The vases and jars made purposely for the show were a great success; they were made to order by a local firm of potters, glazed and colored a dull green; there was nothing in them to detract attention from the flowers.

I have heard some of the boys betting that they can beat the others growing chrysanthemums next year. This is the right spirit, and it makes the prospects for a better show than ever next year bright.

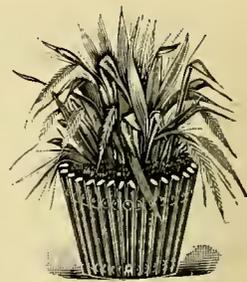
I read murmurings from the east that chrysanthemums are played out, but before swallowing this I should like to ask a question or two. What better time could he had for holding a show than during November? What better or easier grown flower could be had for making a good bright show? What commercial flower is more susceptible to the hybridizer's art, and with such quick results? What better opportunity could be found to show indoor grown roses and carnations than at a chrysanthemum show? What would boom horticulture generally among the general public more than a chrysanthemum show?

If you have not got chrysanthemum James Eadie, get it.

A number of the newer chrysanthemums mentioned by Mr. E. G. Hill in the last issue of the FLORIST were shown here, viz., Mme. Chas. Molin, James Comley, Mrs. Geo. West, Mrs. H. McK. Twombly, Wanlass, etc. E.



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\$7 per 100 lbs.
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THE FINEST STRAIN is what every florist wants. I think you will find mine as good as the best. Stock carried in cold frames, and orders filled any time. 100 by mail 60 cts; 1000 by express \$5 00; 5000 \$20. Finest mixed seed of above Pansies, pkt., 2500 seeds, \$1; per oz. \$6. Yellow same price. Cash with order.

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MARIE LOUISE VIOLETS, from 2-inch pots, \$2.50 per 100; \$20 per 1000. 300 large plants at \$5 per 100.

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LITTLE GEM. The dwarf J. J. Harrison.



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H. E. CHITTY, Paterson, N. J.

Worcester, Mass.

A very decided improvement in trade is noticeable since my last letter and it looks as if business had at last settled down to a reasonable steadiness after the many ups and downs experienced during the summer and autumn.

The Thanksgiving of 1894 has eclipsed all the other Thanksgivings, in the magnitude of business and this old New England holiday bids fair to rival Christmas and other red-letter days in the life of the florist. Roses, carnations and violets were scarce and if it had not been for "mums" flowers would have been scarce. There was an unprecedented demand for Wilder, Albertini and other light pink carnations and the supply was rather short. Trade was confined almost entirely to loose flowers, with a few baskets and center pieces to relieve the monotony.

The weather is not very favorable to growers as dark days are the rule rather than the exception. As yet we have not had very severe weather. Lange brought in the first Romans November 20.

A. H. L.

Express Rates.

Do express charges have to be prepaid to secure the 20% reduction, and does the special rate include bulbs as well as plants? Our agent here says the charges must be prepaid. Is he right?

W. R. T.

The rule reads "Prepaid or guaranteed." Therefore if the payment of the charges is guaranteed by the shipper they need not be prepaid. The 20% reduction does not apply to bulbs.

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Tourists and others in choosing a route to Florida should not miss the opportunity to visit Lookout Mountain, scene of the famous battle "Above the Clouds," with its magnificent "Lookout Inn," now open. It would be well, therefore, to bear in mind that the Nashville, Chattanooga & St. Louis Ry. is the only line passing around Lookout Mountain. "Dixie Flyer" through sleeping-car by this line from Nashville to Jacksonville, Fla., carries you in daylight via grand old Lookout Mountain, Kennesaw Mountain, Atlanta, Macon and Tifton. Quick-step through sleeping car line over same route St. Louis to Jacksonville leaves St. Louis 7:50 a. m. and Nashville 9:10 p. m. daily. Sleeping car berth can be reserved through from Chicago to Florida. Address Briard F. Hill, N. P. A., 194 S. Clark St., Chicago, Ill.

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Newton, Mass.

The annual meeting of the Newton Horticultural Society was held on November 10. Officers were elected as follows: President, D. D. Slade; vice-presidents, J. H. Woodford and E. W. Wood; secretary, L. H. Farlow; treasurer, A. T. Sylvester. A report by the Tent Caterpillar Committee showed that over 57,000 belts of eggs had been collected and brought to the committee in competition for the prizes offered for the largest number of belts. The capital prize of \$10 was won by P. C. Barton, with 14,000 belts.

Mr. Gane, the originator of the beautiful Mrs. Jerome Jones and several other fine chrysanthemums, has a number of new seedlings this year that promise well. We cannot have too many amateurs like Mr. Gane.

Portland, Ore.

A successful show was held here, opening November 21. Clarke Bros. made the largest display, entering in several classes. Martin & Forbes, H. Lowitz and Mr. Walch were other florist exhibitors. There were numerous exhibits from amateurs. Prizes were offered for table decorations and designs, as well as chrysanthemum plants and flowers. Much interest was shown in the exhibition.

How to Make Them Last.

A Topeka chappie boy made a chrysanthemum last four days. He put it in water at night and brushed it with a curry comb every morning.—*Topeka Journal.*

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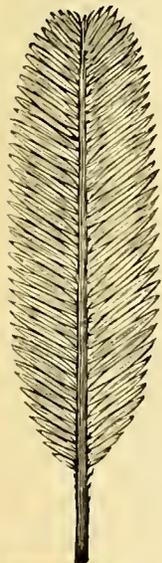
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Lenox, Mass.

The first annual meeting of the Lenox Horticultural Society was held at the society's rooms on Saturday, December 1. The following gentlemen were elected officers for 1895: President, Martin Finaghty; vice-president, A. McConachie; secretary, A. H. Wingett; treasurer, H. P. Wookey.

Reports of the secretary and treasurer showed the society to be in excellent condition, it having raised its membership from twelve in February to eighty-four in December. Though the year has been one of heavy expenses the report showed a balance in the treasury of nearly \$400. The members are all most enthusiastic over the progress the society has made, which far exceeds the imaginations of the most sanguine. Very able essays have been read by a number of the members and will continue at all the meetings during the coming winter. A hearty vote of thanks was extended to the retiring officers. W.

Prudence versus Football.

There is much hilarity among the boys at the expense of two of the young seedsmen of Boston. These wide-awake young men are football enthusiasts, and the Harvard-Yale match had for them an undefinable fascination not to be resisted. They purchased premium tickets, and at an early hour on Saturday morning a rushing express bore them towards Springfield. They sprang jokes on the way and were happy. Their goodly rolls, frequently displayed, evoked the cool jealousy of the college boys who were fellow passengers.

Once in Hampden Park their enthusiasm knew no bounds. That inborn business instinct hidden beneath the superficiality of every seedsmen came to the surface and the boys determined to make money. They would back Harvard; she was about to win, but anyway they would back her. They did back her; she didn't win, and here is the sequel:

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Moral: Don't wager on the results of a precarious football contest what you have taken a year to save behind the seed counter. F. B.

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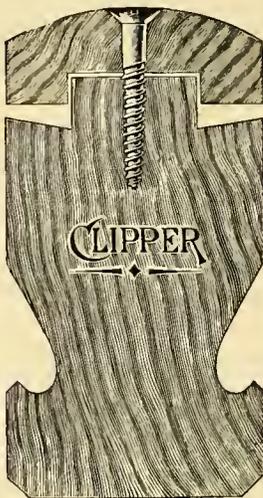
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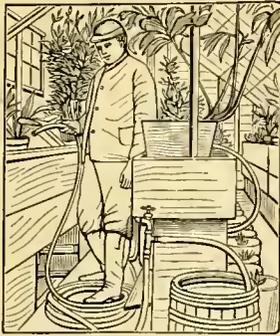
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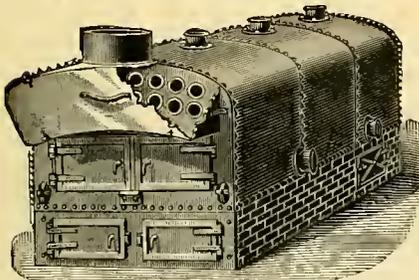


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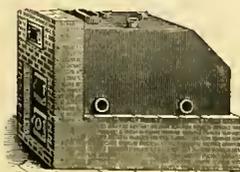
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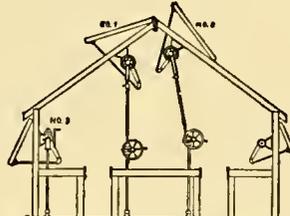
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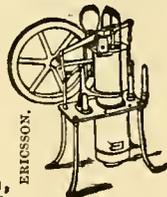
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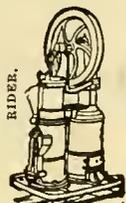
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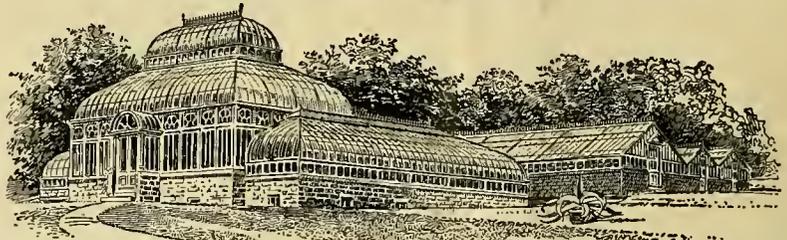
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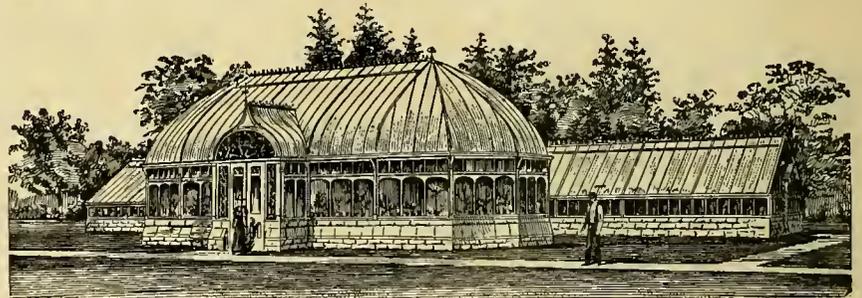
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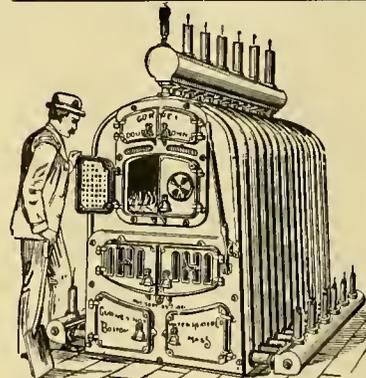
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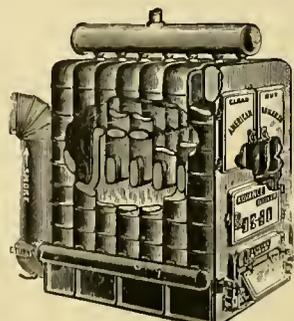
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Vol. X.

CHICAGO AND NEW YORK, DECEMBER 15, 1894.

No. 341

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SOCIETY OF AMERICAN FLORISTS.

J. T. ANTHONY, Chicago, president; ROBERT KIFT, Philadelphia, vice-president; WM. J. STEWART, 67 Bromfield St., Boston, Mass., secretary.

The new officers to be installed Jan. 1, 1895, are: EDWIN LONSDALE, Chestnut Hill, Philadelphia, president; E. C. REINEMAN, Allegheny City, Pa., vice-president; WM. J. STEWART, Boston, secretary; H. B. BEATTY, Oil City, Pa., treasurer. The 11th annual meeting will be held at Pittsburg, Pa., August, 1895.

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MARLBORO, MASS.—Mr. Rufus Howe, for many years a market gardener and florist in this town, died on December 3 at the age of 92. He was superintendent of Mt. Auburn Cemetery at Cambridge between forty and fifty years ago. He was a man of kindly impulses and well deserving of the high esteem in which he was held by all who knew him.

CHATTANOOGA, TENN.—The display by Mrs. J. W. Crouch at the recent chrysanthemum show was said by experts to be the best ever made by a southern lady florist. She carried off all the first prizes for plants and cut blooms with but two exceptions.

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The Arrangement of Flowers.

XIV.

MANTEL DECORATIONS.

The mantel decorations at the recent Chicago exhibition were so varied in character that a review of same, with illustrations, will undoubtedly prove of interest in this department.

No arrangement of plants or flowers can be so perfect that it can not be criticised from some point of view, and as judicious criticism is always educational we shall criticise as well as commend.

It is gratifying to be able to say that the mantels displayed this year showed generally a decided improvement over those of former years, though in the majority there was a lack of flowers. Decorative plants are not only desirable but necessary in such decorations, but should we allow them to crowd out the flowers entirely? On all the seven mantels there was but one vase of roses, and no carnations. Several of the points made by the lady judges were unquestionably well taken.

First, the upper part, from the mantel shelf to the top, around the mirror to the over mantel, if there be one, should be treated as the main feature, for the reason that when the rooms are crowded with guests that part of the decoration below the mantel shelf is entirely lost to view. We must, however, not make the mistake of supposing that the base of the mantel should be entirely neglected. Here again the ladies throw out a hint that should be heeded: "Don't arrange little plants in 3-inch pots on the floor in such a position that the train of ladies' dresses in passing might sweep them from their moorings." And another point well taken is: "Don't carry your side groups of plants beyond the line of the fender at farthest." And again, to quote the lady judges showing their good sense: "The plants at the base should be of a nature that would stand some amount of brushing against without injury to the arrangement or damage to the material. When side groups of palms and plants of that nature are used the treatment of the fireplace should be of a different class of plants; two or three pots of ferns, say *A. gracillimum* with their light green airy fronds would form a fine contrast to the darker foliage of the palms."

Now let us analyze the different exhibits somewhat in detail and at the same time try to figure out as nearly as may be possible the commercial value of each; in other words what can such a decoration be furnished for at a fair profit to the florist? This is a rather difficult question when we have to take into consideration the fact that in some of the mantels at

least some tender and high priced plants were used such as are invariably ruined in a short time and must therefore be reckoned in at their full value. This material we must therefore eliminate to a certain extent. In most instances other material could be substituted with nearly the same effect. Then again the florist who owns his own decorative plants has the advantage over he who does not. The latter has no difficulty in renting his palms, dracænas, pandanus and all the other more hardy varieties, but when it comes to ferns, fancy caladiums, orchids in bloom or anything else in this line he will have to buy them outright, but if he can use them for some purpose afterward this may lessen the cost. Our estimated cost must therefore vary according to the facility with which the material can be had.

The mantel arranged by Anthony & Curran, which took first prize, was well worthy of the award. The arrangement and grouping of the plants was simply perfect, the base was kept within proper bounds on the floor space, and the sides well defined and expressive. The shading of color also was very effective. In the tall group flanking the left hand side the dark shades of such palms as kentias, arecas and latanias predominate, while the opposite side was arranged with plants of a lighter green, such as Pandanus Veitchii, adiantums and other ferns. Starting from the right hand corner of the mantel asparagus was draped around the mirror, some 30 cattleyas being fastened into this draping with superb color effect. In the judges' opinion the bunch of two or three dozen lily of the valley placed squarely in the center of the mantel injured the artistic effect. We share the judges' opinion that it would have been better to omit the valley altogether, or else arrange them in the opposite corner from the orchids.

At what price could such a decoration be supplied? Thirty *Cattleya labiata* flowers will cost at present when stock is scarce 50 cents each, \$15; asparagus \$2, 25 valley \$1, use of hardy decorative material \$5, ferns and material liable to be damaged one-half value \$5, total \$29. We might make a cut in the last named item and reduce the cost a few dollars. At that rate \$50 would be a fair retail price, not counting our own time in arranging. We hope to see the time, however, when genuine skill and taste is appreciated, and when that happy time has arrived you may tack on an extra ten or twenty dollars. As times are at present, however, the best we can do is to be satisfied with a fair profit on our material.

Walter Kreitling arranged the mantel that took second. The mantel itself was of a style ill adapted for effective decoration, and under the circumstances the result was creditable to the designer.

The effect was too heavy, though, and the plant arrangement too massive. The caladium at the top, right in the center under the adiantum, didn't escape the judges' criticism; it had no business there. The plants though well arranged were lacking in judicious color tone; that is, the light and dark foliage was mixed together indiscriminately. If the vase of fifty "mums" had been reduced to one-half their number and the vase placed a little to one side, the effect would have been greatly improved. The treatment of the grate in ferns was good.

The cost of putting up this exhibit is probably considerably more than the figures we shall adopt, but stock less liable to injury could be substituted for quite a lot of the material used, and some omitted altogether, as for instance, the selaginellas at the base which were lost to view. A half dozen *Adiantum gracillimum* cost \$9. The cut fronds of these, however, after the plants have served their purpose, are worth one-half their cost. The cost would therefore stand somewhat like this: For loan of hardy decorative plants for one evening \$6; pot ferns, etc., allowing for salvage, \$6; 50 "mums," at 8 cents \$4; total \$16. The retail price would therefore be from \$30 to \$32.

W. J. Smyth's mantel, awarded third prize, consisted of a plant arrangement with a group of orchids of various forms in the right hand corner of the mantel shelf. Like the foregoing this also was somewhat overloaded, particularly the over mantel, where the arrangement of palms, araucarias, caladiums and adiantum gave a topheavy effect. The groups at the sides and base were well arranged but too little attention was paid here also to shading of light and dark foliage. The group of cut orchids would have appeared to better advantage if the various kinds had been grouped separately. The circular arrangement as placed produced a rather stiff effect.

This mantel could probably be reproduced at the retail price of \$45 to \$50. Use of plants \$15, orchids \$10.

P. J. Hauswirth's arrangement consisted entirely of plants. The arrangement of the upper part was a trifle sparse while the base on the other hand had some material to spare. The effect of the whole was pleasing, though showing in spots some raw edges. Some 15 minutes more work in putting on the "finishing touches" would have remedied this defect. In the judges' opinion the color harmony at the base was destroyed by using the scarlet anthurium and *Dracæna terminalis* in the same group. Undoubtedly the effect would have been better if either one or the other had been left out, yet as placed in the arrangement the colors didn't clash, as the plants in question were not placed closely together. The arrangement of the mantel proper was in *Adiantum Farleyense*, *A. gracillimum* and *Cocos Weddelliana*, with a half dozen *ypripediums*, a piece of *cattleya* in bloom, one of *odontoglossum* and another of *oncidium*. These were dotted between the ferns, thus adding a little color.

The cost might be figured as follows: Cost of decorative plants \$5, use of ferns and other plants liable to damage \$9, the orchids for general effect would have been as well cut, the cost of the blooms not to exceed \$4, asparagus \$2, total \$20. Retail price \$38 to \$40.

O. J. Friedman's mantel was a very showy affair. In the opinion of the judges too many kinds of flowers were used. The group of palms which flanked the left hand side of the mantel was splen-

didly arranged. A tall glass vase filled with a superb lot of American Beauties with stems 3 to 4 feet long being placed next to this group on the mantel shelf. The arrangement of this vase, and the position against the group of plants, was a bit of artistic work that must be seen to be appreciated. Next to the vase of roses was placed a low dish with lily of the valley; in the right hand corner a piece of *Cattleya labiata* with a half dozen fine blooms, and between this and the valley were laid some eight bunches of violets. The side group of plants, however, with a central figure of a jardiniere on pedestal filled with yellow chrysanthemums seriously injured the effect of the whole. No one can find fault with Beauties at one side and *cattleyas* on the other, but we must draw the line at placing orchids and chrysanthemum side by side. The base arrangement was also objected to by the judges on two points, first the groups were carried out 2½ feet in front of the fender, and second, the outer border of plants consisted of material in 3-inch pots liable to be brushed over and disarranged; besides the bare pots, which showed plainly, gave the base an unfinished appearance.

Cost: Loan of plants \$12, 2 dozen Am. Beauties \$6, 25 valley \$1, 200 violets \$3, 6 *cattleyas* \$3, 25 "mums" \$4. A. Farleyense \$2, total \$31. Retail price \$60.

H. F. Halle's arrangement consisted of a group of fine decorative plants of such kinds as are generally employed for house decorations. The group was built up diagonally across the width of the mantel from the floor on the left to the top on the opposite corner. On the left side was placed a glass vase of yellow chrysanthemums around which light sprays of asparagus were draped.

This mantel could be reproduced at a profit for say \$25 to \$30. Cost: Loan of plants \$8, 50 chrysanthemums \$5, asparagus \$1, total \$14.

In a later issue we shall give illustrations of simpler and less expensive mantel decorations.

An Elaborate Wedding Decoration.

At a recent Washington wedding the drawing room was draped in white mull arranged in soft folds about the walls and festooned over the doorways and arches. The ceiling was covered with the same material, resembling a sun burst radiating from the chandelier. This was delicately traced after the same style with *Asparagus plumosus*, only the fine thin sprays being used. The chandeliers and walls were festooned with asparagus also and near the ceiling it was so arranged as to form a frieze of festoons. The doorways and arches were decorated with the same material.

In the bay window before which the bride and groom stood during the ceremony, the entire front was filled from floor to ceiling with *Adiantum cuneatum* in pots, face out, forming a wall of maidenhair ferns having a central mirror 4x5 feet. On the lower right hand corner of this mirror rested a monogram, the initial of the bride being made of valley and that of the groom of violets. Across the upper left hand corner was a long spray of *Dendrobium formosum giganteum*, giving a richness to the entire window.

Immediately above where the contracting parties stood was a chime of five bells of white chrysanthemums with clappers of purple violets. The bells were very delicately sprayed with valley and asparagus on the front, relieving the stiffness of the "mums." These bells were tied

with white ribbon six inches wide, forming a true lover's knot. Above these again on the archway of asparagus was another much larger lover's knot in broad sash ribbons, the ends of which fell in graceful waves losing themselves in the asparagus on either side of the bay window.

The handsome mantel, opposite the door entering the drawing room, was banked with *Adiantum Farleyense* extending about half way up the large mirror. At one corner was a huge cluster of fine specimens of *The Queen chrysanthemum*. This mirror was draped with delicate sprays of asparagus. At the top corner over the chrysanthemum was a large bow of 12 inch sash ribbon, one of the ends waving across the glass, losing itself in the asparagus at side of mirror, the other end falling in graceful waves to the side of mantel. In each corner opposite the bay window stood a large vase of *Queen "mums,"* some eight feet high. On the piano were two vases filled with the same flower.

In the second drawing room the mantel was banked with *Adiantum cuneatum* studded with American Beauties, while the fireplace was filled with *Nephrolepis davalloides furcans*. Directly opposite this was a screen formed of palms and ferns, the pots being covered with southern smilax, out of which arose two large bunches of American Beauties. Behind this screen the orchestra was placed. The walls of this room were festooned with wild smilax, while the arches of doorways were covered with mull and festooned with asparagus. The only flowers used in this room were Am. Beauties, and they were in every conceivable place capable of holding them.

In the dining room the decorations on the table, as well as on the mantels and about the apartments on every side, were of American Beauties. The centerpiece was a plaque about five feet long of *Adiantum Farleyense* and Am. Beauties. At each of the corners of the table was arranged a drooping bunch of Beauties almost reaching to the floor, *Farleyense* being the only green used on the table and Beauties the only flowers. At one end of the dining room was a mirror extending from the ceiling to the floor, in front of which was banked a handsome arrangement of palms and ferns. Above this was an immense bunch of long stemmed Beauties. The mantel in this room was banked with *cuneatum* and thickly studded with Beauties, the mirror being festooned with southern smilax, as was the entire room.

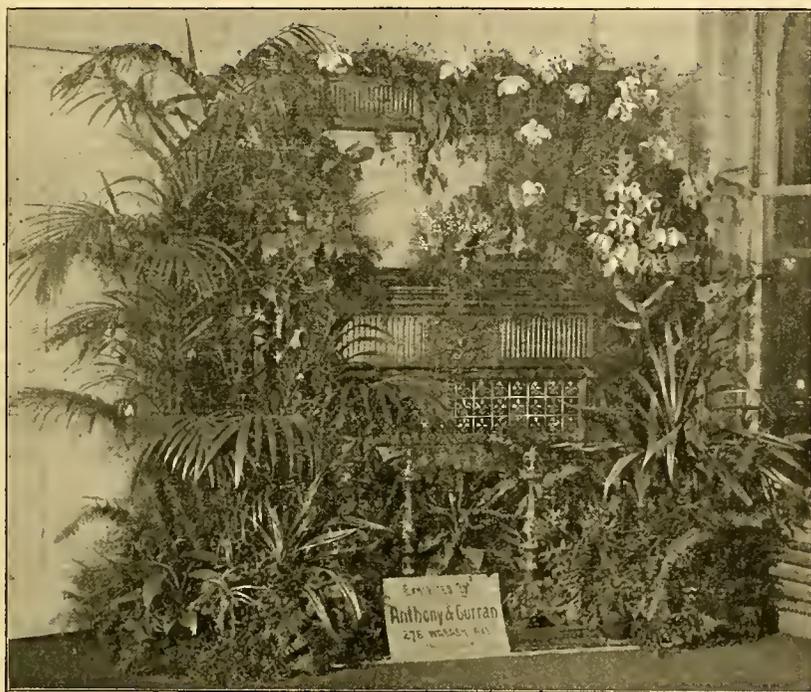
The bride carried a bouquet composed of 40 *Dendrobium formosum giganteum* and *Adiantum Farleyense*. From the stem of the bouquet fell graduated loops of ribbon ½ inch wide, tacked at intervals with delicate sprays of *Farleyense*.

This was considered one of the handsomest decorations ever seen in Washington, and was executed by Messrs. J. H. Small & Sons.

REYNOLDS.

The Florists' Art.

I like the idea of lady judges for florists' made-up work. As a rule they are the patrons of the florists' art, and as florists we should cater to their needs or demands, whichever way you are pleased to term it. Taking it all in all, the ladies generally know what they are talking about, and should you happen to offend their taste you will know, poor florist, what it is to be in a "wumpus," but don't make it a "wow," and don't get excited! Take things easy. Tear your work all



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SECOND PRIZE. ARRANGED BY WALTER KREITLING.
MANTEL DECORATIONS AT THE CHICAGO EXHIBITION.

to pieces, and set it up again, a la carte. "Now, isn't it just too lovely," they will say. And you must acquiesce, of course. Let them have their way—so long as they pay for it. But if you really know what's what—and it is your business to be informed—stick to it.

Often orders are given in a general way—you simply have an idea furnished and have to work out the details and technique yourself. It also may be against your better judgment, and you

politely suggest something different. But no, ladies *can* be imperious, and as long as they pay the fiddler you must expect to dance—yes, and know all the latest steps too.

See to it, my dear florist, that you are no back number, or the other fellow just over the way will nab your best trade. When you *please* a lady customer—when your individuality is original and tasty—and certainly the true florist ought to be an artist in his line—my lady expresses

herself in such dainty compliments: "Your work is always so exquisite," and "I told Mrs. B. just the other day"—you are feeling pleased all the way down to your boots—"I told Mrs. B. that you were so much cheaper than Mr. Steep." Then you understand you are expected to do the work at cost or a *little* below, so as to get her order next time. O, compensation! There's no such word these dull times. When woman, lovely woman, is so awfully fond of bargains, how can the poor florist expect to have enough surplus to attend conventions. "I do so love flowers, but you charge so much I cannot afford them. What is the price of American Beauties by the dozen?" Mind you, this at Christmas. "These are job lots, madame, a great bargain—only a dollar and a half apiece—worth two dollars, and cheap at half the price." Well, she does buy half a dozen carnations. Of course you knew she had no thought of Beauties. "Dat am de blessed truf I'm tellin' you dis minit."

Isn't it fun to attend to Christmas and Easter orders? A letter encloses a dollar. "Send me per first train a liberal quantity of your choicest cut flowers. I suppose you prepay express charges. I like Jacq. roses. Be sure and include a dozen pink roses. Some carnations. I have read of a new variety, 'Helen Keller'; put that in. I would also like a few sprays of lily of the valley, and a handsome bunch of violets. I dote on violets. And do not forget to line the box with maidenhair fern. I don't like smilax. Put my card in the box, and send them to Charlie—he's sick, and I'm so worried. Are 'pillows' very expensive now? P. S.—Mind, I'm very particular. I shall probably see them, and if you fill this order satisfactory, I will likely send you another—some day." You see I draw it mild. The half hasn't been told. I have to let the job out. Unfortunately my constitution is delicate.

For my part I do not see why the dear ladies should make such a fuss about supporting a weak-stemmed flower simply to hold it in position—to keep it up where it ought to be. Why, even *they* use stays and braces, whale bone and what not, to give themselves proper "style" or figure. I doubt much whether they really need it, and wouldn't they look still better to be more natural. "The best people grow less artificial and more simple in manner all the time."

Forbid, though, that I should indulge in ethics. The remarks of the lady judges at Chicago in regard to mantel decoration were apt and well timed. "The decorative effect should be more confined to the top than the bottom, where it is really in the way, or does not show for itself in a crowded room at parties and receptions. A simple, graceful effect is to be desired rather than mere quantity of material." And so on. It always seems so easy to overdo work of this kind, and when it is overcrowded the effect is stiff and unnatural. Good judgment also comes into play, originality and a true artistic sense of the ornate and beautiful. This is an axiom—a self evident truth that applies to the whole ground covered—let it be a dinner table decoration or a loose cluster of roses. When anything is out of harmony I can almost *feel* a sense of incongruity; doubtless it is so with the most of you.

I do not condemn the appropriate use of ribbon, or of gilt and silver—in suitable environment. Nor need maidenhair ferns be absolutely tabooed with chrysanthemums. A plaque or plateau of white or blush "mums" with adiantum bedded in

the moss is artistic and lovely, while crotons, *Grevillea robusta* (silk oak) and cyperus combine to better advantage with yellow and bronze colored "mums."

Any product of the florist's art, should be in itself a picture, an ideality, a study of harmonious color, and linger long as a pleasant memory, still fragrant with the scent of its sweet though faded roses. "The art of a thing is, first, its aim, and next, its manner of accomplishment." And let your heart be in evidence in all your work, for the heart giveth grace and finesse to every art.

GROVE P. RAWSON.

Improvements in Greenhouse Heating.

[Read before the New York Florists' Club, December 10, 1894, by Samuel Burns, member of the American Society of Heating and Ventilating Engineers.]

In Chambers' Encyclopedia we find under the heading of "Greenhouse" the following: "The first greenhouse of which there is any record was erected about 1619, by Solomon De Caus at Heidelberg, to shelter orange trees. The Chinese, however, are not unacquainted with greenhouses, and it is not known how long this has been the case. Heat was at first supplied when necessary by hot embers put in a hole in the floor, afterwards by furnaces in the greenhouse; flues, steam and hot water pipes are of more recent invention." Under the heading of "hothouse" the same authority says: "The oldest mode of heating hothouses is by furnaces and flues; the other modes practiced are by steam or hot water led through the house in tubes." The only information that I can gather regarding the heating of the greenhouse built by Solomon De Caus is that it was warmed by means of four large furnaces. How these furnaces were constructed or in what manner the heat was conveyed to different parts of the building is simply a matter of conjecture as history gives us no definite information on this point. However, as this greenhouse was used to shelter over four hundred orange trees planted in the ground it is reasonable to suppose that these furnaces were connected to a system of flues, taking into consideration the information we have at our disposal I do not think we shall be much out of the way if we assume that the first method generally adopted for heating greenhouses was the ordinary furnace and smoke flue. We certainly have good reasons on which to base such a conclusion, for while we find that the Romans understood the circulation of hot water to some extent, they knew more about heating by flues. The Hypocaust was a form of furnace much used by the Romans for the purpose of heating baths and apartments. The fuel was placed in a chamber under the floor and the smoke and heated air were made to circulate around the walls and under the floor by means of hollow tubes or a hollow lining. The full benefit of the fire was thus obtained, in place of a large portion of the heat being allowed to escape as it does in the case of the open fireplace. The Romans invariably used this form of furnace for heating their dwelling houses. We also find that the Chinese have for a long time used a very elaborate system of flues, and by which the floors of rooms are heated by a furnace constructed below with a moderate expenditure of fuel. We find this mode of heating described in Philosophical Transactions 1771, but the date of its introduction does not appear to be known.

There is not the slightest doubt that the smoke flue answered a very useful

purpose in the early days of horticulture and was at that time the most economical way in which the desired result could be obtained. This system of heating had many objections, such as unequal temperature in different parts of the house, as it was necessary to produce an excessive amount of heat at the furnace end in order to obtain any appreciable effect at the extreme end. This invariably produced a dryness in the air which had to be corrected to a certain degree by putting pans of water on the flue at various points. There was always great danger of the flue bursting at some point during heavy firing, which would allow the gases to escape and thus destroy many plants. The limited scope of the flue also necessitated a number of fires in large establishments, which was both inconvenient and costly. The origin of the invention of employing hot water for diffusing artificial heat appears to be hid in considerable obscurity. It is not improbable that like many other discoveries it has been reproduced at various periods. The same observations may be made regarding steam, for in searching through the various books of reference at my disposal I find that although hot water heating has been most generally used for greenhouse work the application of steam was fully understood long before we had a correct idea of hot water circulation. In a work written by Thos. Tredgold and published in 1824 I find the following: "Col. William Cook first suggested the idea of employing steam as a means of distributing heat in 1745. It has since been applied in various ways, most of which have repeatedly been secured by patents. The first of these was granted to John Hoyle of Halifax, England, in 1791, for a method of communicating heat to greenhouses, churches, etc. His plan consisted in conveying steam in pipes or tubes into or through the place to be warmed, the pipes being first raised to their highest elevation and then descending with a gentle declivity to a cistern for the condensed steam, the supply of water to the boiler to be regulated by a ball cock. This scarcely differs from Col. Cook's plan which had been known 46 years before, and what better can you do at the present time?" I find also in the same work the following in an article on forcing houses and stoves written by Mr. Neill; he says "Of recent improvements in this branch of gardening, however, the most important is the use of steam for communicating the artificial heat in place of depending as formerly on the passage of smoke and heated air through flues. Steam is employed on the largest scale by Messrs. Loddiges at Hackney, and I have nowhere seen stove plants in greater perfection and vigor. They have now (1824) used steam about five years and with success." It was somewhere about this time that hot water circulation began to be better understood, and the moment it was steam took a back seat for greenhouse purposes and remained so until about eight or ten years ago, when it came up again almost in the same form as that described by Tredgold.

Hot water heating seems to have been used in France in the year 1777 by M. Bonnemain, and was employed by him for hatching chickens by artificial heat. About the year 1817 the Marquis de Chabannes introduced a similar apparatus into England for heating a conservatory and also heating some rooms in a private house by pipes leading from the kitchen boiler. In 1822 Mr. Bacon, a gentleman of fortune, introduced the use

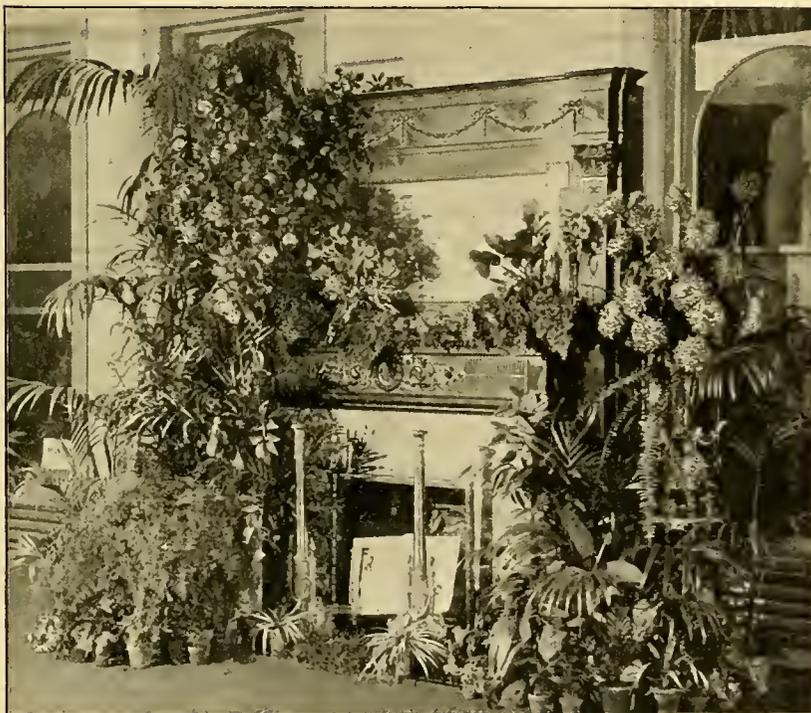
of hot water into his forcing houses, using for the purpose a single pipe of large diameter, communicating with the boiler; and by giving a slight elevation to the pipes from the horizontal line he was thus enabled to produce a circulation of the water, the hot water passing slowly along the upper part of the pipe and the colder water returning to the boiler, along the lower part of the same pipe. The circulation in this apparatus was very imperfect and Mr. Atkinson, an architect, almost immediately afterwards suggested the addition of a second pipe to bring back the colder water to the boiler and thus at once the apparatus assumed the form which it has ever since retained. By this alteration the apparatus was brought very nearly to the same form as that contrived by M. Bonnemain more than forty years before; the principal difference being that M. Bonnemain used only very small pipes of gun barrel size, while Mr. Atkinson used pipes of four or five inches in diameter.

The boilers used in the early stages of hot water heating were very simple in construction, in fact nothing more than an open vessel somewhat similar to a common wash boiler. I saw one of these in 1874 at Mr. Durfee's greenhouse in Fall River, Mass. This apparatus consisted of an open copper boiler having a flow pipe leading out near the top and a return pipe entering the bottom; the pipes were 4 inches in diameter, also made of copper and carried around the greenhouse to an expansion tank. Of course with this form of boiler the pipes would necessarily have to be carried on a dead level, otherwise the water would overflow. This being the case and finding that the pipes must in many cases be carried on different levels would naturally suggest to the inventive genius of the age the close topped boiler such as is used at the present time. The improvements that we enjoy both in steam and hot water for heating greenhouses can not be said to be in methods, but rather to be a better knowledge of the laws which govern their application. There is no art, however humble, in which a knowledge of the laws that regulate matter does not open a wide and extensive field of useful improvement. It is only by a careful study of the principles which govern natural phenomena that we are enabled to profit by their practical application. Such has been the case with the heating of greenhouses. The day of the brick or tile flue with its dry heat, constant leakage of gas and other disagreeable features is past. No progressive florist would at the present time think for a moment of heating a new greenhouse by this method, and while in many cases he allows the flues to remain in his old houses it is generally because the times do not warrant him in spending the money necessary for a change.

The methods employed for heating our modern greenhouses at the present time are the same as have been previously described, namely, hot water and steam. We have, however, many different ways of applying them to our uses. We have the gravity system, the low pressure system, the high pressure system, the overhead system, the combination overhead and under bench system, the uphill system, the downhill system; and, as if this was not enough, there are some manufacturers of boilers who claim to have a special system of their own. All these various systems are described by Chas. Hood in a work entitled "A Practical Treatise on Warming Buildings," published in 1836. After very careful con-



THIRD PRIZE. ARRANGED BY W. J. SMYTH

ARRANGED BY O. J. FRIEDMAN.
MANTEL DECORATIONS AT THE CHICAGO EXHIBITION.

sideration I have arrived at the conclusion that most of these so-called new ideas are old ones warmed over.

I will now give you a brief description of the various systems of heating greenhouses, confining myself to those previously mentioned. First is the gravity

system, which in hot water refers to all cases where an open tank is used and the tank not elevated any more than sufficient to fill the pipe with water. In steam the gravity system refers to all cases where the water returns to the boiler by its own specific gravity without the aid

of a steam trap. The low pressure system in hot water refers to any case where a tank is attached to the apparatus at a reasonable elevation above the heating pipes; the tank may be closed in this system but must be supplied with a low pressure safety valve. In steam this would be the same as the gravity system. The high pressure system is not much used either in steam or water heating owing to its dangerous qualities. In hot water this system calls for a small coil of pipe built in a furnace, the pipes being continued from the upper part of the coil and then around the room to be heated, forming a continuous pipe when again joined to the bottom of the coil, a large pipe being placed at the highest point in the apparatus for expansion. This pipe should have an opening near its lower extremity by which the apparatus is filled with water, the aperture being then closed by a screw or valve; the apparatus thus becomes hermetically sealed. The expansion pipe thus left empty is calculated to hold about one-twelfth as much water as the whole of the small pipes, this being necessary to allow for the expansion that takes place in the volume of water when heated. The overhead system refers to those cases in water or steam where the heating pipes are overhead and can be either high or low pressure as desired. The combination system can be either water or steam and refers to those cases where the flow pipes are carried overhead and the returns carried under the benches and thus back to boiler. The uphill system refers to water and applies to those cases where the water flows up gradually to the end of the greenhouse, which is the highest point, and then returns to boiler. The down hill plan is the reverse of this, the hot water rising at once to the highest point and then dropping back through the greenhouses to the boiler. The gravity system is an old standby and has done good service for us in the past and is still doing good for us to-day. The low pressure system, both steam and hot water, are good according to conditions. The overhead system is undoubtedly good to keep the snow off the roof but is very unkind to the plants on lower benches. The combination overhead and under bench system, either in steam or water, has in my opinion thus far proved itself to be the most effective. Florists generally are at the present time taking greater interest in the subject of heating than they did some years ago, and as a result of this are better informed on this vital point. The more they study this question and consider it a part of their own business the better will they be enabled to select the best the market affords in the way of heating apparatus.

* * * * *

Whether we use hot water or steam we are to-day better able to determine what will be the result of a certain combination of boiler and piping as applied to greenhouse work. We find also that with the advent of two-inch pipe many florists have been able to do their own piping during the slack part of the season. This will naturally be a saving to them of many dollars in first cost, but while I must commend any business man for trying to reasonably reduce his expenses, and while I feel that it is wise for a florist to fully understand how to put in a system of heating I would say: Don't attempt the job unless you fully understand what you are going to do. I can safely say from my experience of over twenty-six years that a large majority of the failures in greenhouse heating are

due to imperfect systems of piping. Remember at all times, whether you are putting in hot water or steam, that there is no such phrase as "good enough" in the business; you must proceed carefully at all times with the pipe tongs in one hand, the spirit level in the other. Of course an indifferent job of piping may work; were such not the case I am afraid quite a number of our florists and private gardeners would have to call in the services of an expert. Where the piping is not put in properly the circulation of the water or steam, if it circulates at all, will be sluggish, thus necessitating a greater force at the boiler, which means a greater expenditure of fuel than would be required under proper conditions. In all cases where a florist finds it necessary or advantageous to do his own piping I should advise him to consult with the parties from whom he purchased the boiler, telling them plainly what he proposes doing, and ask them to furnish a plan of the work. This they will no doubt cheerfully do, for it is to their interest to have the work done well.

With our modern boilers and systems of piping the florist can regulate the temperature of various houses to suit the conditions required by different kinds of plants. The improvements in this direction are shown by the magnificent specimens exhibited at our flower shows. The use of two-inch pipes in conjunction with a proper arrangement of valves gives us an opportunity for sub-dividing the heat such as was not possible with pipes of larger size.

What I call the combination overhead and under bench system has five good points to recommend it; this is where the flow pipes go overhead, and the returns under benches as previously described. First: It can be adapted to the pressure system by placing a safety valve on the expansion tank, or it can be used with an open tank having no pressure but what is due to the column of water. Second: The heat is carried to the extreme end of the greenhouse in the shortest possible time, and returning under the benches on either side, beats back to the boiler from the extreme end, which can be kept at the same temperature as the end nearest the boiler. Third: It can be used on the uphill or down-hill plan, to suit the grade of the greenhouse; this is very convenient when the house grades the wrong way. Fourth: An increase in the vertical height of the flow pipes is always followed by increased velocity, therefore we get a quick circulation. Fifth: Last, but not the least, should your greenhouse be situated in a place where you would strike water by digging down from six to eight feet, or should you strike rock, this is the system that will help you out of your difficulty. I have carried out some work on this system where the base of boiler was on a level with the heating pipes, and the water had to rise up to the return about twenty inches. We have a little boiler heating our office on this plan where the main return pipe travels about fifty feet along the floor, and about eighteen inches below return pipe entering boiler; after traveling fifty feet this return pipe drops under the floor about ten inches, travels between two beams for about seventeen feet, then rises up into boiler; in both these cases the circulation is perfect. In greenhouse work I prefer to have a boiler pit at least eighteen inches deep, so as to bring the return water back on a level. I have great faith in this system, for where I have used it the circulation has been very rapid, and the results more than I expected.



Carnation Notes.

The different opinions concerning rust and its causes, the different formulas used for the prevention and cure of the disease, are somewhat bewildering and amusing. The remedy which has kept rust from one grower's stock is of no value to another and the dose which has killed it (the rust) on another's plants that were badly infested, has killed the foliage on his neighbor's. We learn that one man has used six pounds of carbonate of copper to fifty gallons water. Now this is sixteen times as strong as used by a party who told me that he had no trouble in killing the rust as dead as a hammer with only six ounces to fifty gallons of water. Still another grower commenced with the latter dose and gradually increased it in strength until the last application was six times as strong as the first solution, and still the rust continues to show and to spread in spite of all the spraying and attention that has been given the plants, and this seems all the more curious as some plants received from the same grower as the last case mentioned are now growing not three miles away without the least sign of rust. Why is it? Is it a condition of the atmosphere in the house? Is it the watering overhead or underneath? Keeping the foliage moist or dry at all times? Why is it that stock purchased from a grower who has never had a particle of rust will at once show up that powdery substance that has caused so much worry and so much loss of stock, simply because some growers were scared into throwing out whole benches of fine plants. I'm one of these. Some say grow only the varieties of carnations that are "rust proof," but you see we must have flowers of some kind, and while one or two new sorts have not developed rust, yet it must come to them as to all the rest.

A case which may have some bearing on this matter came to my notice lately. A member on the staff of the New York Experimental Station informed me that in Iowa where he came from the wheat is troubled greatly with a fungoid growth called rust. The farmers were advised to grow sorts that were not subject to this disease, so they sent to Texas and procured a variety which had never shown any disease whatever. Great were the hopes and expectations of the farmers. Great was their sorrow when the next season brought with it to the rust proof wheat the same old rust as they had been troubled with. This same gentleman informs me that all measures so far taken to prevent this fungoid growth have proven useless, that some seasons no rust appears, but the next year it may appear stronger than ever, and the directors of the stations in the far west have come to the conclusion that it is a condition of the atmosphere which produces rust, and that there is no remedy, and I begin to think that Bordeaux or any other remedy is of very little use on carnations, for stocks that last winter at this time were literally covered with rust lost every trace of it before the following May. I purchased five hundred plants last March and threw them out a few at a time until they were all gone; they were rusty. The

party who sold me these plants gave me one hundred in July which were taken from the same stock but which had outgrown the rust. There has never been any rust on these plants nor any sign of it.

Now, after all the fuss and noise that has been made of this subject and even the advice received from eminent growers telling us to throw out, and upon what are left to spray a dozen different solutions, I have come to the conclusion that I will for the sake of experiment stop right here. Perhaps if my place was loaded, as they term it, I would keep right on, but as I have only found five plants this fall that had any rust I think I am safe in taking a few chances. If after a few months withholding fungicides the rust appears in any quantity I will tell you.

CHARLES H. ALLEN.

Bursting of the Calyx.

Will some one kindly inform me as to the cause of Lizzie McGowan carnations bursting their calyx? I have 10,000 plants in, and so far they have done well, but the flowers are now beginning to burst the calyx. I give them a night temperature of 50°, and 60° to 70° days, water well and have them on solid benches in soil part heavy, part sandy loam and cow manure.

INQUIRER.

Answer: Run the houses 55° at night and use nitrate of soda, one pint to fifty gallons of water as a stimulant, once every two weeks, alternating with a solution of fresh cow manure, one pail full to fifty gallons water. I believe McGowan grows better in a light soil. If your soil is naturally heavy I would advise making it light with such vegetable matter as corn stalks or straw cut into short lengths and mixed in compost heap in the spring; better to do it now if possible. If you will try benches four inches deep in comparison with solid beds I think you will discontinue using the latter. The result of the change in temperature advised will not be perceptible for two weeks.

CHARLES H. ALLEN.

Cyclamen Persicum.

A request comes from "F. H." to the editor asking some grower to write up "How to grow cyclamen from beginning to end, giving details of the management from seed pan to flowering." I shall endeavor to give "F. H." my method of growing these most beautiful plants, and can say that when faithfully followed out I have always been successful, but when any neglect was allowed to creep in a corresponding failure occurred. In growing cyclamens, as in the culture of most of our crops it is not the science you possess so much as the constant application of the knowledge you have; the constant and never ceasing watchfulness is the attribute which makes good gardeners. And this will apply most particularly to the cultivation of cyclamens, for they must never be neglected at any period of their growth.

The seed should be fresh and of a good strain. Sow anywhere from September to end of January, the earlier they are sown, the larger you can have the plants for the following winter, but if grown on without a check you can grow fine plants in twelve months. Sow in a well drained pot or shallow box in sandy soil. Make the surface of the soil perfectly even, press in the seeds and cover only enough to



ARRANGED BY P J HAUSWIRTH

ARRANGED BY H. F. HALLE.
MANTEL DECORATIONS AT THE CHICAGO EXHIBITION.

just cover the seeds. Keep the soil moist but not too wet. When the little plants have made the second leaf and the bulbs are the size of very small peas transplant single into 2-inch pots or prick out in flats. I prefer to transplant into flats about 2 inches apart; when the plants begin to crowd lift carefully and pot into 3-inch pots. I might say here that from the time the first leaf is formed they should have plenty of light and all the air they can, consistent with temperature, and only need shade during our hottest months. Before they need a shift from the 3-inch pots it will be the month of May or June, and now comes the most critical time of their growth. Some growers (and I believe it is the practice with the Germans) make mild hotbeds and plunge them in, raising the shaded sash back and front. There is no doubt a larger plant can be grown this way, but not such a compact and useful one, and they run a much greater chance of being neglected in a frame than on a bench in your houses. A moderately shaded house with plenty of ventilation will do them all right for the midsummer months. In May or June they should go into a 4 or 5-inch pot, and in September they should get their last shift, a 5 or 6, or 7-inch as the plant needs, but don't scrimp them for pot room, as they grow and flower a long time.

When October comes they are easily managed. A light airy house where the night temperature is 50° to 55° is the proper place for them. The soil that suits them is a good yellow loam with a third of genuine leaf mould. If you don't have the latter then a substitute can be found in thoroughly rotten manure, but no trace of fresh manure must be used. In a barrow load of the soil I have used one-half a peck of old lime rubbish (mortar) which they like, and for drainage there is nothing so good as charcoal. They should have perfect drainage at all times; pot rather firmly. On all bright days they should receive a light syringing. In regard to water they should never be allowed to wilt for want of it, which they quickly will do, and if well drained you are not likely, with any exercise of judgement, to over water them.

They are much troubled with three well-known enemies, greenfly, thrips and red spider. There must be a regular systematic fumigating at all times; never less than once a week which will keep down the fly and thrips, and a frequent syringing will keep off the spider. For these reasons they are better handled in a house than a frame. I have never used any liquid manure to them, except soot from soft coal, one-half a pint of that in three gallons of water will help to produce a deep green in their leaves as well as intensity of color to the flower. Never crowd the plants at anytime, always giving light and air. Never stunt them for want of root room, never let them get infested with greenfly, etc., and you will assuredly grow cyclamens. *Cyclamen persicum giganteum* is the variety now generally grown, but there is a strain I grew a few years ago under the name of *C. P. grandiflorum* which I much prefer.

WM. SCOTT.

MR. JOHN WHITE of Elizabeth, N. J., has raised a gem in the form of a variegated foliaged canna. The leaves are elegantly variegated white and green, and edged with pink. It has not yet flowered.

Please mention the AMERICAN FLORIST every time you write to an advertiser

Hard Wooded Cuttings.

Now is a good time for putting in cuttings of such plants as boronias, ericas, acacias, azaleas and others of such like nature. All those, then, that keep the above class of plants in stock, and find time lying heavily on their hands after getting everything in order for the winter, would do well to employ their spare time in getting in a batch of cuttings of the class mentioned.

Though root action in the established plant, as well as in the cutting, is less active perhaps in this month than in any other month of the year, yet it is nevertheless on that account more favorable to cuttings of this class, since they take so long to root. They will, if put in this month, be going through the process of callousing at the cut end, and since the sun is less strong now and nature consequently less excitable the drain on their vital forces will be less exacting; they will therefore naturally improve their time in more or less establishing themselves in the cutting quarters, and be better prepared to respond successfully with the emission of roots when the excitable season comes around. To further assist in preventing exhaustion of their vitality during their long inactivity, a bell glass, or a similar contrivance should be placed over them. This glass should be frequently wiped dry from the moisture that collects on the inside of it. Whether inserted in pots, pans or benches ready escape of superfluous moisture by plentiful drainage must be secured, and in consequence of the ample drainage necessary for this end eternal vigilance must be exercised on the other hand that the moisture be not allowed to get under a certain point.

The best material for inserting such cuttings in is upland peat, sifted fine, and silver sand in equal parts. If the above ingredients, however, are not easily procurable any good sharp clean sand will give tolerable assurance of success, providing other necessary details are strictly attended to. The sand used must be, however, much finer than that used for ordinary soft-wooded cuttings. River sand of a clean sharp nature is preferable to bank sand, unless the latter be very clean and fine, and exposed to the elements for some length of time. Sand used directly from a bank for propagating purposes has a tendency to remain for a considerable time cold and sodden, a condition always detrimental to success. Sand that has been exposed for some time to the weather becomes more adsorptive of the solar heat, which is so essential to the promotion of vegetable growth. This holds good likewise for potting sand, and therefore it would be an excellent plan to have at least a six months' supply on hand at all times.

Sphagnum moss, the green tips of same chopped very fine and sand mixed together in about equal parts, I have found to be the best all around propagating material, and strictly so with medium and hard-wooded cuttings. Crotons and many others of like nature will root in such material in one-half the time that they would have taken in sand. The theory of the advantage in favor of the latter material for propagation is, in the first place, that water has an easy egress on account of the porosity secured by the particles of moss; secondly, that those particles will absorb considerable water, giving it off as circumstances demand; thirdly, that the need of the watering pot is less frequent—a material gain, I consider; and lastly, it will absorb artificial

heat to a higher degree, and retain it longer, than sand will.

Cuttings of the class of plants above referred to, if put in now, should not of course be introduced to bottom heat or any high temperature; a temperature of 55° to 60°, as the highest range for the next six weeks, being sufficient; after that period of time elapses they can be put in a place where they can get a gentle bottom heat. Cuttings of this class so treated will yield a higher percentage of live plants at the end of the year than if put in as late as February and March.

The tips of the shoots made the present season should be taken in the case of boronias, also acacias, the small sturdy side shoots of ericas and the vigorous and unruly shoots of azaleas. It is necessary to cut those unruly shoots in azaleas well back to ensure uniformity of growth, and the tips of same will root readily and make nice little plants in a few years. Considerable critical observation of the mode of flowering, etc. will enable the operator to take the proper cuttings and from the proper place without materially altering the appearance of the plant.

K. F.



CHAS. H. ALLEN.

President-elect of the New York Florists' Club.

New York.

There has been a noticeable shortening up in receipts of cut flowers, more particularly roses, which notwithstanding the somewhat spiritless complexion of the retail market has sufficed to advance prices of small lots and to suspend for the present any special quotations on large quantities. The shortage is due in part to the condition of the weather, which has been steadily unfavorable to flower production in either quantity or quality. For very fine American Beauties the price ranges from 60 to 75 cents each, but they must be very fine to reach these figures. A good many poor roses are seen, all varieties contributing more or less to this grade, but Mermets especially noticeable. Those received from some growers look as if parboiled and are of no earthly use to anyone. Cypripediums are very plenty, the daily receipts sometimes running up into the thousands. Violets vary greatly in quality, even from the same grower. The demand for them is irregular and stocks are frequently carried over from one day till another, when owing to lack of fragrance they bring but small returns. Harrisii lilies and lily of the valley are in full supply. Mignonette is in demand and the small quantity of extra quality being received sells at sight.

Changes among the growers, from one commission dealer to another are now of daily occurrence. Whether the greediness of certain growers or the hot rivalry existing between some of the commission men is most responsible for the existing conditions would be difficult to decide, but it must be apparent to anyone giving the matter unselfish consideration that

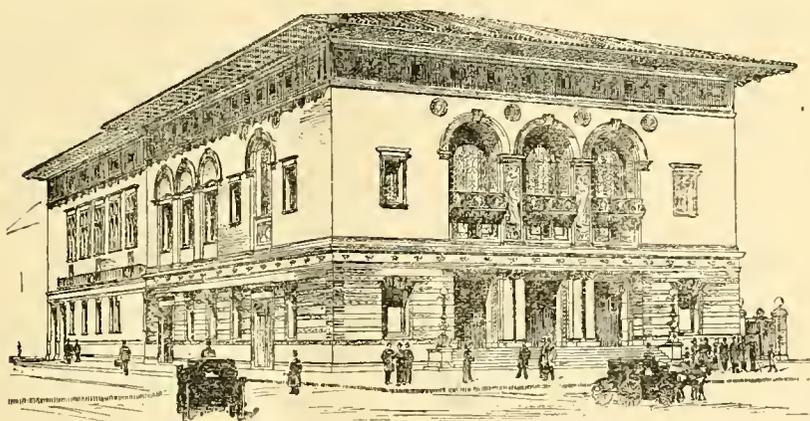
such a state of affairs is most unfortunate for the flower trade in the long run. The product of large establishments is often taken from a dealer without any notification whatever. The reply of these growers to any criticism of this practice is that any goods consigned to a dealer after advance notice of a change had been given him would be purposely sacrificed. Yet it is not an easy matter for a grower whose stock has been carried through the dull season by a commission house and who two weeks before Christmas without warning transfers his product to another agent to explain or justify his action on any grounds consistent with the sense of justice and honor in fair minded men. For the credit of the profession it is well that there are some growers, and they stand in the first rank as growers too, who are able after their years of experience to select an agent in whom they are willing to place their confidence for at least a twelve month and whose conscience demands some better motive for making a change than the bait offered by a rival house when holiday time approaches.

The meeting of the Florists' Club on the evening of December 10 was one of the largest for many a month; the election of officers and the promised essay by Mr. Samuel Burns on the "Improvements in Greenhouse Heating" serving to draw together a very large and representative gathering. There was no contest on any of the offices with the exception of that of secretary, on which lines were sharply drawn and preferences pretty evenly divided, Mr. Young being re-elected by a small majority. Chas. H. Allen was elected president, C. G. Weeber vice-president, and C. B. Weathered was given another term as treasurer. For trustees James Dean, A. T. De la Mare, Theo. Roehrs, J. N. May, J. H. Taylor and S. C. Nash were unanimously chosen.

The dinner committee reported that Saturday, January 19, had been selected for the great occasion, which it was stated would be the most elaborate affair ever consummated in New York, the price of tickets being fixed at five dollars. The old committee on transportation to Atlantic City was amid much merriment resurrected long enough to report finally that everybody had got home all safe from that important event. A resolution by Mr. Kelsey calling attention to the inequalities in rulings on imported nursery stock and urging the necessity of a correct and uniform interpretation of the tariff rules now in force was adopted by a unanimous vote and Messrs. Kelsey, Asmus, Jr., and De la Mare were appointed a committee to present the case before the customs authorities. After an amendment to the by-laws providing for a salary for the secretary and the treasurer, at 9:30 p. m. the essay was reached and Mr. Samuel Burns proceeded to read the interesting paper, which we present on another page of this issue, and which was vigorously applauded.

On the centre table were vases of Mr. J. N. May's two new introductions, the carnation Dean Hole, and the rose Mrs. J. Pierpont Morgan, and a number of dwarfed palms recently received by W. A. Manda from Japan, supposed to be *Chamaerops Fortunei*. Another interesting object was a directory of the city of New York for the year 1786, which Mr. Morris exhibited, remarking that there was not a single florist mentioned in it.

The New York Florists' Bowling Club reorganized on Monday afternoon, December 10, under most favorable auspices



THE PROPOSED NEW HORTICULTURAL HALL OF THE PENNSYLVANIA HORTICULTURAL SOCIETY, PHILADELPHIA.

and with a membership of sixteen to start with. Alex Burns was elected president, Lawrence Hafner secretary and treasurer and E. Leuly captain, and a set of rules for the regulation of the club adopted after a due amount of good natured, eloquence. Meetings for practice will be held on every Monday afternoon from 3 to 7 o'clock.

Mr. James Purdy, wholesale florist, late of West 43d street has succeeded to the business of F. D. Hunter at 57 West 30th street, Mr. Hunter having given up the business to accept a position as flower buyer for several large out of town establishments. Mr. Purdy's wife died a few weeks ago after a long illness and his business was badly disarranged in consequence. He has the sympathy of a large circle of friends and well wishers.

A particularly sad event of the past week was the death of the wife and infant child of Henry W. Siebrecht, Jr., which took place very suddenly at their home in New Rochelle on the 8th inst. Mrs. Siebrecht was a most lovable young lady and much sorrow is expressed at her death.

D. H. Roberts of American glass fame will move in a few weeks to 130-132 South Fifth avenue, where he will occupy the whole of a five story building with floor's 50x175 feet each. Thos. W. Weathereds Sons will also move shortly to a new office in Cornell Building, Center street.

It is also announced that John A. Scollay of Brooklyn will open an office in New York on the corner of Center and Leonard streets.

Mr. Samuel Henshaw contemplates a trip to California in company with his wife, starting January 15.

Mr. A. Dimmock will sail again for England on December 29.

Philadelphia's New Hort. Hall.

We present herewith a reduced reproduction of the architect's drawing of the proposed new hall of the Pennsylvania Horticultural Society. The interior decorations will be in keeping with the exterior. The following is extracted from the architect's description:

"On the first floor the front part of the building is devoted to the library of the Horticultural Society and to the secretary's offices. The central part of the building is occupied by the hall of the grand stairway, behind which are spacious waiting rooms, cloak rooms and lavatories, on the north for ladies, and on the south for gentlemen. The accommo-

dations thus provided are ample for one thousand persons. The waiting rooms are also suitable for use for floral exhibitions or for small entertainments.

"Ascending the grand stairway one enters the large hall, 70 by 100 feet, with a vaulted ceiling at a height of 35 feet. This room will seat 1,100 persons for concerts and lectures and over 500 for banquets. It is lighted from each side by a series of five large windows; at its west end is a platform, below which, and upon a level higher than that of the first floor, are six small rooms.

"In the front part of the second floor is a suite of rooms consisting of a small hall and two supper rooms. In this suite supper will be served when entertainments are in progress in the large hall, and for this purpose serving rooms are provided extending entirely across the front of the building.

"The kitchens will be on the third floor, immediately over the supper rooms, and the basement will contain the rooms of the Florists' Club, the apparatus for heating, ventilating and lighting, and ample storage rooms for all purposes."

Philadelphia.

W. K. Harris cut the last of his "mums" December 10, with the exception of the beautiful variety Mrs. Thos. Cartledge, which seems to be the latest of the late. The stock of this kind has been sold to Pennock Bros. Mr. Harris says his late varieties, Eva Hoyt and After the Ball, paid him better than any of the early ones, although it was not on account of their excellence, but more from the fact that he had the market to himself. Another grower is well satisfied with his crop and the prices obtained, as he sold \$600 worth this season from the same space that yielded but \$400 in 1893.

The extra demand for all kinds of cut flowers generated Thanksgiving week still continues, and good stock sells readily at advancing prices. On December 10 all roses were advanced, Beauties moved up to \$5 per dozen for the best, and anything worthy the name brings \$3. All the larger teas are selling for \$8 per hundred, while the smaller stock, such as Perles, Cusins, Gontiers and Watevilles, bring \$4. Double violets are a shade more plentiful at from \$1.50 to \$2 per hundred. Speaking of this flower, a Philadelphia gentleman happening in New York a day or two ago stepped into a Broadway store and had a boutonniere of their purple beauties arranged on the

lapel of his coat. "How much is it?" "One dollar, please." "One dollar! why, I never paid any such price as that for a boutonniere." "You must be a Philadelphian," replied the attendant as he gave his customer the change.

Carnations have moved up a notch, and \$2 and \$3 is now asked for the best; they are a trifle more plentiful than last week, and the quality is still improving. Valley and hyacinths sell readily for \$4 per hundred.

The market scheme is progressing, another meeting having been held. The following gentlemen have been proposed for officers: President, Wm. Hageman; secretary and manager, Geo. C. Watson; board of directors—Robert Craig, John Burton, Wm. Hageman, Geo. Anderson, Geo. C. Watson, W. K. Harris, John Westcott, Edwin Lonsdale and Joseph Heacock. The time for secrecy being past, an interview a column long appeared in the *Public Ledger* under the caption "A Poetic Combine"; this was the result of an interview with Mr. G. C. Watson, who has been active in perfecting the movement, and while it contains nothing new, it is a very full and explicit account of the plans of the organization. The Heacock movement to sound the trade on the possibility of a plain growers and dealers' market, and for which purpose a meeting was called last Tuesday afternoon at Horticultural Hall was a great success. It demonstrated beyond all doubt that the trade are entirely satisfied with the present methods of handling cut flowers, and desire no change. The great advantages of a cut flower market over the present method to everyone in the business have been frequently acknowledged by the leading growers and dealers, but it being so easy to move along in the old beaten path that any new way is viewed with mistrust, and the smallest obstacles become great stumbling blocks. Adieu, market, adieu!

There was a good attendance at the meeting of the club last Tuesday evening. C. I. Kent and Theodore Miller were elected to membership. The paper read by Mr. John Curwen, Jr., showed careful preparation and was very well received. The thanks of the club were tendered him for his excellent essay, which was ordered to be sent to the horticultural press. A discussion on lawns brought Mr. H. Michell to the front with the following formula for perfect lawn grass seed: Fancy blue 30%, red top 15%, wood meadow 10%, perennial rye 10%, white clover 20%, Festuca ovina 5%, Rhode Island bent 5%, sweet vernal 5%.

It was also stated by Mr. Craig that the next meeting of the Horticultural Society would be held Tuesday evening, Dec. 17, at Century Drawing Room, 12th street below Chestnut. A paper would be read by Mr. Lonsdale on plants for home adornment, illustrated with specimens of well kept house plants of several years' acclimatization. Mr. R. Craig will also give a talk on the same subject, illustrated by a number of specimens from his greenhouses. Members of the club were asked to send anything beautiful or curious, or that would be of interest to visitors. This is a move in the right direction, with a meeting as interesting as this promises to be held every month the membership of the society will surely grow and the interest in its work increase in the most gratifying manner. Mr. May has promised to send specimens of his new roses and carnations to this meeting, and any other novelties sent will be received and staged by the committee, and their merits passed upon. K.

Boston.

Mr. Geo. McWilliam exhibited at Horticultural Hall on Saturday, December 8, two hybrid cypripediums in bloom for the first time. One was a cross between *C. Spicerianum* and *C. venustum* and showed in a marked degree the characteristics of both parents. The other, a cross between *C. Spicerianum* and *C. niveum*, was a perfect little gem and must certainly be called one of the loveliest cypripediums in existence. A silver medal was awarded for the latter. Mr. McWilliam also showed some well bloomed plants of *Luculia gratissima* in 4-inch pots which attracted much admiration. As a Christmas blooming plant nothing prettier or more appropriate could be imagined than a pot of these deliciously scented pink blossoms. Among the other exhibits were some seedling carnations from Sewall Fisher. Two of these were white varieties of much promise, one of them being a true smooth edged flower and very handsome.

Boston has been pretty well buried in snow for the past two weeks and the delights of sleighing may be supposed to have in some degree interfered with the demand for cut flowers. The cold weather has served to keep the peddlers off the street, however, and whatever trade has been going has gone through the hands of the legitimate dealers. There is no overstock of anything to speak of and no prospect of any until after the holidays. Prices have been firm on all grades since Thanksgiving, with a tendency to advance where stock is of extra quality.

There is no prospect of a specially large supply of anything in the cut flower line for Christmas. There may be an exception to this in the case of *Harrisii* lilies, which seem to be considerably more forward than ever before at this season. The demand for holly has been increasing every year and indications are that this year's sales will far exceed any of its predecessors.

Visiting Boston: Winfried Rolker of Aug. Rolker & Sons and Geo. Sykes, representing Hitchings & Co., of New York; Charles H. Allen of Floral Park; Eugene Dailedouze of Flatbush, and S. Skidelski, representing M. Rice & Co., Phila.

Dean Hole has been here to deliver a lecture, but owing to the exacting requirements of his business manager no opportunity was given the rose men and florists to extend the hearty welcome which they had contemplated, much to their disappointment. It is hoped, however, that at a later date their desire may be gratified.

Buffalo.

There is little to say about business in our town, for since Thanksgiving it has been very quiet. A few small parties, but none to affect the general trade. Flowers are not over plentiful, or at least those grown in the vicinity.

Wise Bros. of East Aurora are sending in very fine carnations as usual, which are always quickly picked up. These Wise men have the faculty of growing extra fine flowers even of the older kinds. Their *Portia* and *Tidal Wave* are a distinct article from the average of those grown.

Harmon & Burr of Darien are again the violet men of Western New York. They are picking large quantities and the flowers are A1 in every respect. Last year's violet king, Mr. Ruhlman of Lockport, is not sending in the immense quantities that he was last year, although he has added several houses to violets. His

plants look well and a little later he will come with a rush.

One of our east side florists, Mr. C. Barth, has given up the business for reasons of which the writer is ignorant. Speaking of the east side but a very few years ago a flower store in that part of the city was not dreamt of. Now there are several, showing not only the great growth of the city, but also the growth of the business. Besides a dozen greenhouse establishments, all doing a retail business, there are several stores doing a good business in their own locality. There is Max Gluko on Broadway, S. Pickleman and James Milley on William street, Joseph Staffinger on Seneca street, and away down in the south end of the city is the neat store of Mrs. Buddenberg.

All hands and the cook are now busy with greens and holly, which promises to be as big a factor in the business as ever. The holly that has arrived is not of a startling quality, but there are other places to hear from. The ground pine is very fresh and green.

The writer made a very short visit to South Park last week, where the botanical director, Prof. Cowell, is making good progress with his range of propagating houses. In these hard times it was impossible to get but a small appropriation for the erection of glass this fall, but under the strictest supervision of that little the very most will be made of the money. Would that Buffalo had a Phipps or Carnegie. The South Park or that part which will be known as the Botanic Garden is admirably suited for the purpose. There is almost every quality of soil and great diversity of elevation. There will be I should say a suitable place found for every plant or tree that is hardy in these parts; standing near the site of the greenhouses on the ridge road and looking north and west there is a grand view of the city, Lake Erie and the Canadian shores. The city is fortunate in having such a gifted and enthusiastic man as Mr. Cowell in charge of that department of her public parks.

Bowling seems dead among the florists here, although very much alive in the city at large. We don't have to practice you know, but we would like to have just a go at those Rochester florists. I believe we could beat them even with Peter Crowe thrown in on their side. W. S.

Chicago.

The Christmas holidays are close at hand. Only one more week remains for the grower to bring forth that promised crop of roses and carnations. To judge by present appearances of the various establishments we have visited lately the outlook is not all promising for a heavy supply. The average stand of the rose houses is probably as good as that of last year, but very few benches give promise of a full crop for Christmas week. The greatest bulk will strike the market a week or two late. Much of course depends on the weather, which at this season of the year is apt to be far from reliable. There is another powerful factor which cannot fail to shorten the holiday supply, and that is the continued scarcity of stock and consequent high prices at present. This should not affect the supply of roses, which no grower of these enlightened days is supposed to put in pickle. It is different however with carnations, violets, mignonette, etc., which could be kept back with perfect safety. So far as is apparent now not a single carnation fit to pick is being held back; the same is true of violets. The former like the roses

are looking on the average quite promising for the season, but no extra large supply can be depended on for Christmas. Violets on the other hand show up better, the average quality of blooms is better than last year and unless the present signs fail the supply should be ample. Romans are not grown around Chicago to any large extent this season, at least but comparatively few batches are being forced so far. *Narcissus* (paper white) too are not nearly as plentiful as was the case in former years, the few sent in are good and sell readily.

On the whole it would seem that unless the attraction of the present stiff prices should draw a unusually large supply from outside points, stock will be scarce and consequently high. The steady pressure of the shipping demand further points to the fact the country growers and dealers are short. Many of these orders have to be scaled down for lack of a sufficient supply.

In local circles trade has been quite active. The charity halls of both the Knights Templar and the Hebrew society called for a large supply of all kinds of flowers. Transient trade also is improved. The retail stores are beginning to show a great activity in preparing for the holidays. Holly has made its appearance, and store fronts and show windows are putting on a holiday attire. In novelties there is nothing new or startling. The Christmas bell of scarlet immortelles is a back number, and so are the wreaths of cape flowers in various colors. The former is practically extinct; of the latter though quite a large quantity is being prepared for sale. Holly holds its old time popularity. Wholesale dealers report a heavy demand for this and other Christmas greens. The quality of holly is good, but is not berried very heavily, at least that which is on the market now.

Recent visitors: Harry Bayersdorfer and Martin Reukauf, of H. Bayersdorfer & Co., Philadelphia.

The committee of the Horticultural Society of Chicago had a conference with Alderman Madden last Thursday and mapped out a plan of work regarding the Lake Front park project.

St. Louis.

Dull weather has prevailed during the greater part of the last ten days, accompanied by continuous rain; stock of all kinds has felt the effect and has manifested a decided falling off in receipts. The demand continues good and seems to be in little sympathy with the lowering skies. Prices have advanced sharply and are manifesting unusual strength, as there is nothing left after the demands have been filled. Carnations that two weeks ago were plentiful, are now scarce, red varieties have been in demand in quantities during the week without a sufficient supply.

The prospects so far are that most growers will be rather short of roses during the holiday times, especially if the dull weather continues. With the exception of roses however everything promises to be in full supply. Ground pine has been received and several dealers have commenced making wreathing for standing orders, it being necessary to commence in time to have it out of the rush later. A store man, in speaking of the quality of ground pine used, stated that he never lost any of his through its being brown, the brown colored was rejected during the first going over, and when considerable had accumulated it was either tied in bunches or made into

wreaths and then dyed. Green aniline dye was used, about 25 cents worth emptied into a large pot of boiling water. Care should be taken to keep the water boiling while in use as the dye takes much better. The material should remain immersed only long enough to become moistened; as the strength of the coloring lessens with use additional dye should be added.

The single pipe system seems to have come to stay; most of the new steam work going in is of that order. Thos. E. Carroll has had his entire plant put under steam heat during the past summer with the above system, and is much pleased with it; he has not a valve about the place, regulating the pipes in use by opening or closing the air taps at the upper end of the runs. The boiler however, will not carry steam the length of time desired without attention and he is thinking of changing it.

J. M. Jordan has changed his steam heating to the single pipe system, and is very much pleased with its working, being able to have a circulation and warm pipes before any pressure is indicated on the gauge.

F. J. Fillmore is changing from the two to one pipe system; his two pipe system as constructed was not under sufficient control, and while altering it he changed to the latest fad. J. W. Dunford found the heater he had placed in position during the summer too small to do the work required, and is putting in a larger one.

Luther Armstrong has opened a branch store at Olive street and Spring avenue, this makes five stores within a radius of two blocks of Grand avenue and Olive street; it appears to be rather crowded.

Mr. Davidson, who has been connected with the Michel Plant and Bulb Co., for many years, has during the past week entered the service of H. A. Dreer of Philadelphia, and has gone east to assume his new duties, and it is needless to say he carries the good wishes of all the craft with him. R. F. T.

New Notes.

DIXON, ILL.—The 39th annual meeting of the Illinois State Horticultural Society was held here December 11, 12 and 13.

COLUMBUS, O.—The 28th annual meeting of the Ohio State Horticultural Society was held in this city December 12, 13 and 14.

LOUISVILLE, Ky.—Fred. Haupt has removed to a new store at 241 and 243 West Jefferson street, where he had an opening December 15.

FRANKLIN FALLS, N. H.—The greenhouse of Frank Huber was destroyed by fire on the morning of November 29. Loss \$1,000. Insured for \$400.

DUBUQUE, IA.—Florist W. A. Harkett supplied plants and flowers for a chrysanthemum show by one of the local churches, which was very successful.

OMAHA, NEB.—The Otto Buseck Floral Co. has been incorporated with a capital stock of \$2,500. The incorporators are Otto Buseck, Victor Buseck and F. Kurth.

TOLEDO, O.—The Park Board has received the proceeds from a recent sale of bonds and there is now \$68,374.92 available for the improvement of the parks.

DULUTH, MINN.—Quite a successful chrysanthemum show was held here by one of the churches. The plants and flowers displayed were all grown by florist A. C. Anderson.

LINCOLN, NEB.—There was an excellent display at the chrysanthemum show. The principal exhibitors were Messrs. Frey & Frey, Chapin Bros., John Shaw, Mills & Mosher, Lindley & Co.

QUINCY, ILL.—The "Quincy Florist Club" has been organized with officers as follows: G. Gross, Pres.; F. W. Heckenkamp, Jr., Sec'y.; John Kellar, Treas. The club intends to give annual flower shows.

MEMPHIS, TENN.—Mr. Albert Haisch, formerly of Uhlman & Haisch, has started a new concern, growing general greenhouse stock and cut flowers, with the title Albert Haisch & Co., at 422 Main street.

CHARLESTON, S. C.—The business of the late Samuel Webb will be carried on by his daughter and son until the property is sold. The Exchange Banking and Trust Co. have been appointed administrators of the estate.

PLEASANT HILL, Mo.—Geo. M. Kellogg has added 25,000 feet of glass to his establishment, giving him a total of from 80,000 to 90,000 feet, devoted to cut flowers. The foreman, Alfred Broman, to whom a large share of the success of the place is due, has been in Mr. Kellogg's employ for the past four years, commencing when the business was in its infancy.

OAKLAND, CAL.—Rev. Dr. Perkins has a plan for shipping fruits and flowers that will greatly reduce the cost if successful. He car when packed is deprived of air and carbonic acid air substituted for it. It is reported that a car was run to New Orleans and back, and on being opened the fruit and flowers were found to be as firm and from decay as when packed. Another experimental trip will be made this time to Chicago.

SALT LAKE CITY, UTAH.—There has been unusual activity in greenhouse construction here this season. Richard Evans has built one equal span house 20x120; C. Cramer, one three-quarter span 25x125; C. F. Pfau, three short-span-to-the-south houses, of which two are 18x100 and the other 18x112; the last named have been leased for a term of years by A. L. Murphy, of the Lafayette Floral Establishment.

WACO, TEX.—At the recent chrysanthemum show the largest display was that of James Morton, of Clarksville, Tenn., who brought a carload of plants and cut bloom. This exhibit was a show in itself. It was not entered for competition. In the competitions S. J. Mitchell, a Houston amateur, captured nine firsts and one second in the ten classes in which he entered. Other successful exhibitors were Chas. Mayer, a Waco florist, and the Dallas Floral Co., of Dallas.

SALT LAKE CITY, UTAH.—Trade is quiet here yet; very few parties; the bulk of trade the past ten days has been in funeral decorations. The florists' greatest grievance here is their coal bills. The poorest kind of slack costs \$3.00 and \$3.20 per ton; but there are very few days during the winter here that we have to keep any fire from 8 o'clock in the morning until 5 o'clock in the evening; the days are generally warm and bright. The first snow of the season fell on the night of the 6th inst. Chrysanthemums about all gone and everybody is glad of it.

PEORIA, ILL.—Trade for Thanksgiving Day was good. Everything in the way of good stock sold very readily, especially roses and carnations, but at lower prices than in former years. Fall trade has been moderately good so far, and we are all expecting a much better trade than last year through the winter. There is quite an increased call for violets this fall. Chrysanthemums sold better this fall than ever before. Cole Bros. gave a very creditable chrysanthemum show a few weeks ago that was fairly well patronized. Jas. C. Murray is adding another house 18x100 to his well arranged plant. This makes his sixth house and it would be hard to find a place better stocked, and with everything in such good healthy condition. One house of carnations is especially fine. Mr. Murray removed from 329 Main street to 401 Main street on the 1st of October, where he has the entire store to himself.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

SITUATION WANTED—As rose grower; have had 8 years' experience in growing stuff. Address G. care American Florist, Chicago.

SITUATION WANTED—By competent florist, age 25, single. Best of references. Address FLORIST, care The Royal, 308 State St., Chicago.

SITUATION WANTED—By florist; good rose grower. Married, age 28; commercial or private place. References. Address GUST. OBBEMEYER, care N. Studer, Anacostia, D. C.

SITUATION WANTED—By first-class all-round S man, either as grower or traveler for good reliable firm; well known by all the leading men in the trade. "RELIABLE," care American Florist.

SITUATION WANTED—By a second man, commercial or private place. Well experienced also in landscape gardening. Wages moderate. Best references. F. H. H., 155 Harrison Ave., Boston, Mass.

SITUATION WANTED—By a single man, 9 years' S experience in growing roses and chrysanthemums; steady and sober; capable of taking charge of commercial or wholesale place. M, care Am. Florist.

SITUATION WANTED—By a young man of Dutch S nationality, in a large flower store, as a design maker. Fully experienced. Good references. Address ROSLIN CONSERVATORIES, South Framlingham, Mass.

SITUATION WANTED—By gardener; young man, S single, as foreman or first assistant; thoroughly understands growing and propagating all greenhouse plants, orchids, roses, violets, grapes and vegetables. Excellent references. Address AL COMPETENT, care Florists' Exchange, New York.

SITUATION WANTED—In a large commercial es S tablishment in the northwest or east suitable for our foreman, Charles Wotton, to whom we wish to acknowledge the skill and ability with which he has conducted our extensive plant, to our entire satisfaction, and we now desire to see him advanced, which his zeal and perseverance deserves; state wages and size of plant. ANCHORAGE ROSE CO., C. Raynor, Manager.

WANTED—PARTNER—Capable young man with S \$1,200 to \$1,500 cash. Good opening. Within 150 miles of Chicago. BUSINESS, care Am. Florist.

WANTED—A first-class rose grower for large com S mercial greenhouses in suburb of Chicago. A Chicago man preferred. Q, care Am. Florist.

WANTED—Office man and correspondent who is S familiar with plant business. Give particulars to J. D. EISELE, Dreer's Nursery, Riverton N. J.

WANTED—Assistant capable of taking full charge S of 15,000 feet of glass; a man who knows how to produce first-class stock only. Address immediately, ATG. S. SWANSON, St. Paul, Minn.

WANTED—A man experienced in the seed business S to travel, and during busy season to assist in store. One acquainted with southern trade preferred. State previous experience, age, references, and salary expected. Address SOUTH, care Am. Florist.

WANTED—Cut flower arranger to take charge of a S cut flower department. Must be a fairly good mucker-up, quick and energetic. Write, giving experience, references and wages wanted, and when can commence work, to SAMUEL L. MARSHALL, Penn. Ave. near Sixth St., Harrisburg, Pa.

FOR SALE CHEAP—Large second-hand florist's Ice S Box, value about \$75. VAUGHAN'S SEED STORE, 88 State Street, Chicago.

FOR RENT—Three greenhouses, heated by steam; S good condition; central part of live town; partially stocked; will be sold cheap. Houses can be leased for a term of years to suit. Possession given at once, on account of sickness. Address BRINTON WALTER, Christiana, Lancaster Co., Pa.

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

Address THE AMERICAN FLORIST CO., Chicago.

WE LEARN that the illness of Mr. H. B. Beatty has been very serious indeed, and we are happy to be able to add that he is now gaining rapidly and hopes to soon be able to attend to business again. The trouble is with his heart and he will have to be very careful for some months to come, but is assured of eventual restoration to health. He is still at the Michigan sanitarium and is not yet allowed to attend to any business matters except those of great urgency. His many friends in the trade will, we know, join with us in wishing his speedy and complete recovery.

"MODERN GREENHOUSE CONSTRUCTION" is the title of a beautifully printed book of diagrams and views just published by Hitchings & Co., horticultural architects and builders, New York City. It contains a large number of photographic reproductions of palm houses, conservatories and commercial greenhouses which have been designed and erected by this progressive firm in various parts of the country. It is in reality more of an album than a mere catalogue and is a most appropriate souvenir of the completion of a halfcentury's honorable business record.

THE Missouri Botanical Garden has issued its sixth announcement concerning garden pupils. One new scholarship will be awarded prior to the first of April next. Applications must be in the hands of the Director by March 1. Pamphlet giving full details may be had by addressing Prof. Wm. Trelease, Director Missouri Botanical Garden, St. Louis, Mo.

F. SANDER & Co. are introducing a fine seed novelty, Tecoma Smithi, a hybrid from Australia which promises to be a valuable addition to the list of autumn flowering greenhouse plants.

PART 1 OF THE TRANSACTIONS of the Mass. Hort. Society has been received by us. It contains a full record of all the business of the society for the first three months of the year.

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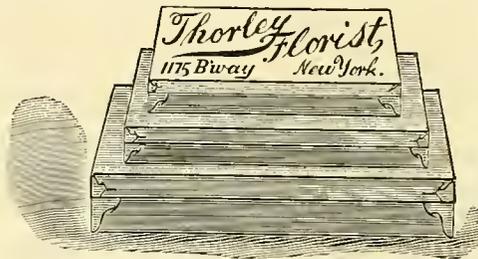
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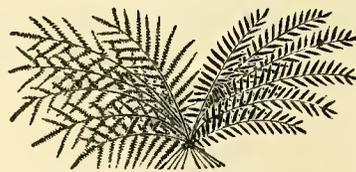
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ROGERS PARK FLORAL CO.,
 Wholesale Growers of
CUT FLOWERS,
 41 WABASH AVENUE,
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 We are prepared to fill your orders with first-class
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NEW YORK, Dec. 11.	
Roses, Bon Silene, Niphotos.....	2.00@ 3.00
" Perle.....	2.00@ 4.00
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" Bride, Cusin.....	2.00@ 3.00
" Waterville, Bridesmaid.....	2.00@ 3.00
" La France, Testout.....	4.00@ 15.00
" Mrs. Whitney, Kaiserlin.....	4.00@ 15.00
" Meteor.....	2.00@ 12.00
" Beauty.....	5.00@ 25.00
" Beauty, extra selected.....	40.00@ 75.00
" Hybrids.....	25.00@ 50.00
Carnations.....	1.00@ 1.50
" fancy.....	2.00@ 6.00
Violets.....	.50@ 1.50
Valley.....	2.00@ 4.00
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Smilax.....	15.00@ 20.00
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Asparagus.....	50.00
BOSTON, Dec. 11.	
Roses, Mermets, Brides.....	4.00@ 10.00
" Niphotos, Perle.....	2.00@ 5.00
" Bon Silene, Gontier.....	2.00@ 3.00
" Bridesmaid, Testout.....	6.00@ 12.00
" Meteor.....	6.00@ 12.00
" Beauty.....	20.00@ 50.00
Carnations.....	1.00@ 2.50
Valley.....	3.00@ 4.00
Hyacinths, Barbus.....	2.00@ 3.00
Violets.....	.75@ 1.50
Harrisil.....	8.00@ 10.00
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Smilax.....	12.00@ 15.00
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PHILADELPHIA, Dec. 11.	
Roses, small.....	3.00@ 4.00
" large teas.....	6.00@ 8.00
" Beauties.....	35.00@ 50.00
" Brunners.....	2.00@ 40.00
Carnations.....	1.00@ 1.50
Smilax.....	12.00@ 15.00
Asparagus.....	35.00@ 50.00
Violets, double.....	1.00@ 1.50
" single, per 100 bunches.....	\$4@ \$5.
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Cattleyas.....	35.00
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Roses, Beauty, selected.....	25.00@ 35.00
" short to medium.....	8.00@ 20.00
" Testout, Kaiserlin.....	5.00@ 7.00
" La France, Albany.....	4.00@ 5.00
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" Bride, Wootton, Mermets.....	4.00@ 5.00
" Perle, Cusin, Niphotos.....	3.00@ 4.00
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FLORISTS
JOBBERS IN
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SUPPLIES,
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VICES.
 METS,
 BRIDES,
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 CARNATIONS,
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 1 Music Hall Place,
 BOSTON, MASS.
 HORTICULTURAL AUCTIONEERS.

PLENTY OF... **Chrysanthemums and Roses,**
CARNATIONS
 In all the leading varieties and the **BEST VIO-**
LETS in New York City may be obtained of
Michael A. Hart,
WHOLESALE COMMISSION FLORIST,
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 Telephone Call 1307 38th St.

THE LEADING FAVORITES:
American Beauty,
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Testout,
 And all other desirable roses, grown espe-
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Roses Shipped to all points. Price list on application.

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Careful Shipping to all parts of the country.
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FINE ROSES
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FLORIST,
 111 WEST 30TH STREET,
NEW YORK CITY.
 Established 1879.

FRANK MILLANG,
WHOLESALE FLORIST
 408 East 34th Street,
NEW YORK.
 Cut Flower Exchange. **ESTABLISHED 1884.**

Our Seed Trade.

AM. SEED TRADE ASSOCIATION.

D. I. BUSHNELL, St. Louis, president; S. E. BRIGGS Toronto, 1st vice-president; A. L. DON, 114 Chambers street, New York, secretary and treasurer.

SEVERAL of the largest lily growers in Bermuda are reported to have consolidated their interests with those of two or more American houses and organized as "The Bermuda Bulb Company." These growers are reported to have obtained control by purchase or contract of a large percentage of the out-put for the coming season. It is claimed that this course was adopted by them to prevent the unwise competition which has compelled them to sell bulbs the past season at a loss. The total out-put annually from Bermuda is close to 3,000,000 bulbs. The following greatly-to-be-desired condition of affairs is reported to represent the policy of the company, viz., dispose of the crop through the large jobbers, confining the transactions to these houses exclusively, guarantee uniformity in prices, dump no unsold bulbs on the market at the end of the season, stop commercial shipping of cut blooms from Bermuda, rigid inspection of all exported bulbs. Results: "Mutual protection to the growers, conserving interests of large jobbers, ultimate benefit to the whole trade, by making a fair market; prevention of reckless cutting of prices, improving quality of bulbs, restoring confidence generally, etc."

BULLETIN No. 108 of the North Carolina Agricultural Experiment Station, comprising a report on the methods and uses of seed testing by the botanist of the Station, Mr. Gerald McCarthy, is a document of much interest and value. The results of several years of carefully conducted tests of the viability, purity and germination of seeds are given in a comprehensive manner, and the great value of such data to the seed trade and the public is convincingly shown. The establishment of a trustworthy standard of quality, by which dealers and consumers may alike buy and sell seeds, and of a standard process of testing seeds to define their quality are strongly advocated. Other interesting subjects considered in the report, which is a document of some 60 pages, are the seed control system in Europe, the structure and mineral composition of seeds, the effect of temperature, light, electricity and chemicals on their germination, impurities and adulteration and descriptions of the various devices in use for seed testing and separation.

THE MONOTONY of catalogue making has been most pleasantly relieved in the case of one New York seedsman. In other words, Mr. C. Cropp of Vaughan's Seed Store is a happy father.

LOS ANGELES.—Gustave Brose, manager seed department Germain Fruit Co., was married to Miss Mary I. Mausfield November 24.

VISITING NEW YORK: W. Brotherton, Detroit, Mich.; S. F. Willard, Wethersfield, Conn., and W. F. Dreer, Phila.

VISITED CHICAGO: D. M. Ferry, C. C. Bowen, Phil Breitmeyer of Lohrman Seed Co., Detroit.

THE Dingee-Conard corporation stock troubles are now being heard by the Phila. courts.

FOR THE SEED TRADE

ONION SETS, SWEET PEAS

AND A GENERAL LINE OF FLOWER SEEDS, GARDEN TOOLS, ETC.

WANTED.

A few customers for regular shipments of ROSES and CARNATIONS, now until June 1, '95, from one to three times weekly. Send for prices.

GEO. A. KUHL, 708 S. 6TH STREET, PEKIN, ILL.

Clematis Jackmanni.

One year, nice dormant stock, for potting up for Spring sales, \$2.00 per dozen; \$12.00 per 100. All home grown. . . . F. A. BALLER, Bloomington, Ill.

CHRISTMAS TREES. 5000 Evergreen Trees, Norway Spruce, American and Austrian Pines, from 5 to 10 ft. high, fine, shapely trees, nursery grown, surplus stock; will be sold at low rates in lots to suit purchasers. For prices address Jas. A. Taylor, Nurseryman, Kalamazoo, Mich.

Toronto.

The florists' business is just about as bad as it can be for this time of year, so I am told. The supply of flowers of all kinds is far in excess of the demand and in consequence prices are away down in B flat; no money in it either for growers or retailers. One man told me he believed that 30% of the cut flowers coming in to town went to waste. This is a melancholy wail to have to make, a pastime I do not often indulge in. I am afraid too that we are not going to have turkey for our Christmas dinner this year. I did hear a rumor that one of the big growers had approached another with a view to forming a combine, but can not vouch for the truth of it yet.

Chrysanthemum bloom is still coming in in considerable quantities, but a great deal of it appears to be very poor stuff and won't sell anyway. The quality of the roses and carnations could not well be better; it is really sad to see them selling at such miserable prices. It is sincerely to be hoped that business may improve during the next three or four weeks or the consequences may be dire for some of the weaker ones.

Mr. Ewing says it is a girl this time. E.

Kansas City, Mo.

All the florists of Kansas City met at the store of Probst Bros. Floral Company, 1017 Broadway, and formed a Florists' Club, all but one firm responding. There were twenty-three present, representing 135,000 square feet of glass. The officers are: R. S. Brown, president; E. G. Heite, vice-president; S. Murray, secretary; F. Brown, ass't. secretary; Arthur Newell, treasurer.

The next meeting will be January 11th, at office of R. S. Brown & Sons. Everyone paid his initiation fee and first quarter's dues, and all are in good spirits. At last meeting a constitution and by-laws were adopted.

Trade at Thanksgiving was very good, and still continues so; but good stock is scarce.

In town: James Hayes, Topeka, Kans.; L. J. Stuppy, St. Joe, Mo.; Geo. M. Kellogg, Pleasant Hill, Mo. S. M.

THE AMERICAN FLORIST (\$1.00) and Gardening (\$2.00) together to one address for one year for \$2.50. Send orders to American Florist Co.

Vaughan's Seed Store, New York: 26 Barclay Street. CHICAGO: 146-48 W. Washington St.

Cox Seed & Plant Co. SAN FRANCISCO, CAL., Seed Growers AND NURSERYMEN.

Contract Price List on application. . . .

READY NOW. Black Calla Bulbs

Extra size, \$10.00 per 100. CASH WITH ORDER. CHAS. SCHWAKE, 404 E. 34th Street, NEW YORK.

FROM JAPAN. — Bulbs, Seeds, Trees, Palms, Etc. FROM AUSTRALIA. — Araucarias, Palm Seeds, Etc. FROM CALIFORNIA. — Bulbs, Seeds, Trees, Etc. Orders booked up to Dec. 1 for Cycas Revoluta Stems. Send for our new and interesting Catalogue '94-'95. H. H. BERGER & CO., (Established 1878.) SAN FRANCISCO, CAL. Oldest and most reliable import house.

BULBS. Hulsebosch Bros. ENGLEWOOD, N. J. SELL ALL KINDS CHEAP.

WE SELL SEEDS Florists' Flower Seeds and Sweet Peas a specialty. Highest quality. Special prices WEEBER & DON, Seed Merchants and Growers. 114 Chambers Street, NEW YORK.

Florida By Lookout Mountain.

Tourists and others in choosing a route to Florida should not miss the opportunity to visit Lookout Mountain, scene of the famous battle "Above the Clouds," with its magnificent "Lookout Inn," now open. It would be well, therefore, to bear in mind that the Nashville, Chattanooga & St. Louis Ry. is the only line passing around Lookout Mountain. "Dixie Flyer" through sleeping-car by this line from Nashville to Jacksonville, Fla., carries you in daylight via grand old Lookout Mountain, Kennesaw Mountain, Atlanta, Macon and Tifton. Quick-step through sleeping car line over same route St. Louis to Jacksonville leaves St. Louis 7:50 a. m. and Nashville 9:10 p. m. daily. Sleeping car berths can be reserved through from Chicago to Florida. Address Briard F. Hill, N. P. A., 194 S. Clark St., Chicago, Ill.

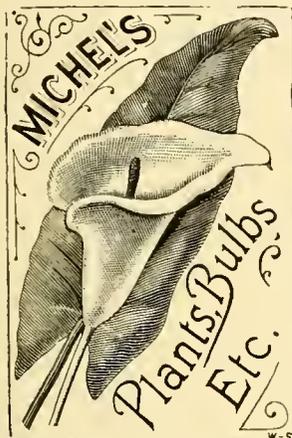
How to Grow Cut Flowers.

By M. A. HUNT.

A PRACTICAL TREATISE ON
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 CARNATION, CHRYSANTHEMUM,
 AND OTHER FLOWERING PLANTS FOR
.. CUT FLOWERS ..

Also, GREENHOUSE CONSTRUCTION, illustrated. Handsomely bound in Cloth, and sent to any address upon receipt of \$2.00.

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Write for Wholesale List.

MICHEL PLANT AND BULB CO.,
 ST. LOUIS, MO.

Bouquet Greens, Mistletoe,
LILY OF THE VALLEY
 (BEST GERMAN PIPS)

Choice Flower Seeds for Florists. Write for prices.

HERRMANN'S SEED STORE,
 413 EAST 34TH STREET,
 Near Long Island Ferry, **NEW YORK.**

PALMS CHRYSANTHEMUMS
CARNATIONS ORCHIDS & ROSES
 Prices on application.
EDWIN LONSDALE,
 WYNDMOOR, near Chestnut Hill, PHILA., PA.

When ready to plant Verbena seeds
 The Progressive type will meet your needs;
 The kind that spans the silver half
 And makes progressive Florists laugh.

New crop now ready and better than ever. Only the very best XXX seed offered. 1/4 oz. 60 cts.; 1/2 oz. \$1.00; trial packet 10 cts. In stamps.

Double Petunia Seed, hand hybridized, Dreer's strain, 500 seeds 50 cts.; 1000 seeds \$1.00.

Single Fringed Petunia Seeds, Dreer's strain and California Giants blended, saved from the most magnificent, showy varieties in cultivation, 500 seeds 30 cts.; 1000 seeds 50 cts.

Mammoth Double White Scabiosa Snowball, per trade packet 1/2 oz. 20 cts.; 1/2 oz. 35 cts.; oz. 60 cts.

A fine strain of Eckford's Sweet Peas, per oz. 10 cts.; per lb. 30 cts. All postpaid.

Snow Crest Daisies, small plants, 2-inch, \$4 per 100.

Will have some splendid Novelties in our New Seedling Cannas, Verbenas, and Petunias, also a general list of small plants and rooted cuttings later.

Address, cash with order please,
J. C. GIBSON, WOODBURY, N. J.

"HARD TIMES" PALM COLLECTIONS.
 The hard times are going and so are the palms, but we can still supply 1", 3 and 4-lb. palms for 83c. and 34 for \$5 cash (regular price \$8). These comprise the best varieties, including Latanas, Kentias. JUST WHAT THE RETAILER WANTS.
WILLIAMS & SONS CO., Batavia, Ill.

SHIPPING BOXES

FOR CUT FLOWERS.

Have you ordered some of these yet? The best and cheapest box on the market. Also the lightest and strongest—weighs but 4, strong as 40 pounds. "Saves its cost in a week on reduced express rates; we call it 'The Perfection,' and that's what it is." Prices wonderfully low. Send for circular at once. **G. C. WATSON, Philadelphia,** Seeds, Bulbs and Plants (Wholesale only), 1025 ARCH ST.

CHOICE SEEDS.
PETUNIA GRAND. FIM. FL. PL.
 The largest and finest strain of double fringed and mottled Petunias to be had. All who see these Petunias say they are finest they ever saw. Extra.

VERBENA GRANDIFLORA.
 This improved strain of Mammoth Verbenas gives perfect satisfaction to my many customers, and is justly claimed the finest in cultivation; florets an inch in diameter, in extra large trusses, of finest colors.

CYCLAMEN GIGANTEUM.
 A magnificent collection of the finest giant flowering varieties; largest flowers and best colors.
 Each, per trade pkt. 25c; 3 pkts. 60c; 6 pkts. \$1.00.
 I will here thank my florist friends for the many letters of commendation received during the past year.
JOHN F. RUPP, Shiremanstown, Pa.

CYCAS REVOLUTA.

Orders booked now for fresh imported stems, fronds and roots cut off; best long-leaved variety. Delivery Feb. 1st to April. Cultivated Cycas always on hand, rooted and well established

Lil. Auratum, Spec. Rubrum and Album, Etc.
 Iris Kæmpferi, in 100 choice varieties.
 Japanese Maples, in best varieties.
 Camellias, Pæonies, Tree Ferns, Raphis, Etc.
 Araucaria excelsa, choice cultivated stock at lowest prices.

For general Japanese stock apply to
F. Gonzalez & Co.,
 303 to 312 Wayne St., SAN FRANCISCO, CAL.

Leave
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FERRY'S SEEDS

Always the best. Known everywhere. Ferry's Seed Annual for 1895 tells you what, how, and when to plant. Sent Free. Get it. Address
D. M. FERRY & CO.,
 Detroit, Mich.

Send for a Copy
 OF OUR

TRADE DIRECTORY

AND REFERENCE BOOK.
 PRICE \$2.00.
AMERICAN FLORIST CO.,
 P. O. Drawer 164. CHICAGO, ILL.

SOMETHING of INTEREST
 TO
Market Gardeners and Truckers
 to be had for the asking. Write now for it.
 Address **JOHNSON & STOKES, Seedsmen,**
 217 & 219 Market St., Philadelphia, Pa.

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

PALMS.

150,000 of all the leading varieties.

FERNS.

50,000 of leading varieties.

Address **GEORGE WITTBOLD,**
 1708 N. Halsted St., **CHICAGO.**
 Mention American Florist.

Choice Florist Seeds.

Pansy, Calceolaria, Primula, Cineraria, choicest strains, at 25 and 50 cts. per trade packet.

Special quotation on **BULBS.**
W. A. MANDA,
 The Universal Horticultural Establishment, SOUTH ORANGE, N. J.
 Mention American Florist.

ROOTED Verbena CUTTINGS

Ready for Immediate Shipment.
 They are perfectly healthy, and the best named varieties.
 Price, \$1.00 per 100; \$8.00 per 1000.
J. L. DILLON, Bloomsburg, Pa.

A. Farleyense Fern

Per Doz. Per 100.
 3-inch.....\$2.50 \$20.00
 4-inch.....5.00 40.00
 Largest stock in the west. Satisfaction guaranteed.
BAKER BROS.,
 P. O. Box 72. KANSAS CITY, MO.
 Mention American Florist.

CHITTY'S NEW PRIZE CARNATIONS

For 1895.

ALASKA—The Best and purest white ever offered.

CORSAIR—The scarlet McGowan.

MAGNET—Beautiful magenta rose.

LITTLE GEM—The dwarf J. J. Harrison.

MINNIE COOK—Superb variegated sort.

See full page illustrated advertisement of above in American Florist December 1st and 8th.

FOR DESCRIPTIVE WHOLESALE PRICE LIST

ADDRESS **H. E. CHITTY,**
PATERSON, N. J.

WANTED!

A good, free blooming, healthy, vigorous **Yellow Carnation.** Flowers must be perfect, of fair size and borne on long, stiff stems. There must be plenty of pips, and these easily rooted.

AND HERE IT IS—Any one of the following will fill the bill:

ELDORADO—Pure yellow ground edged with light pink. Picotee marking.

KITTY CLOVER—Light yellow striped red with a little white.

EULALIE—Yellow ground penciled with pink.

We also offer this year

PRINCESS BONNIE—A beautiful pink variegated flower of large size; and
DAISY BELI—A white, variegated similar to Chester Pride, but very much larger flower.

Send for general price list of both Carnations and Coleus.

W. R. SHELMIRE,

AVONDALE, Chester Co., PA.

THE COTTAGE GARDENS,

Queens, Long Island, N. Y.

WHOLESALE CARNATIONS.

New Carnations our Specialty

FRED. DORNER & SON,
FLORISTS,

LA FAYETTE, : : INDIANA.

CARNATIONS

ROOTED CUTTINGS

now ready, of desirable kinds for **EARLY SUMMER BLOOMING.**

Seedlings, Novelties and Standard sorts in season.

C. J. PENNOCK,

The Pines. KENNETT SQUARE, Chester Co., PA.

ROSES. ROSES.

Superior forcing stock. Strong field-grown. Budded low on Manetti. Extra heavy tops and roots. Better than imported; can depend on their reaching you in first-class condition. Our exhibit at Atlantic City received Honorable mention.

E. V. Hallock says: "Your field-grown Roses interested me very much. They are without doubt the finest grown roses in the world." "The finest and cheapest I ever bought."—*Wm. Falconer.*

HYBRID PERPETUAL, MOSS AND CLIMBING.

H. P's.
•••••

Gen. Jacq., P. Neyron, Mrs. Laing, Magna Charta, Ulrich Brunner, Baron Bonstettin, A. Colomb, Jno. Hopper, A. Diesbach, M. P. Wilder, Earl of Dufferin, Eugene Furst, Silver Queen, Coq. des Blanchés, Prince Camille and other leading varieties **\$7.00 per 100; \$65.00 per 1000.**

A few thousand well rooted, fine plants, just too light for our first grade; mainly Jacq., Neyron, Persian Yellow, Wilder, Colomb, Prince Camille and Bonstettin at only **\$5.00 PER 100; \$40.00 PER 1000.**

AMPELOPSIS VEITCHII, 5,000 fine 3 to 4 ft. plants, at \$70 00.

OUR USUAL COMPLETE STOCK OF HARDY AND TENDER PLANTS, POT ROSES, SHRUBS, VINES, BULBS, FRUIT AND ORNAMENTAL TREES, GRAPE VINES, SMALL FRUITS, SEEDS, ETC.

41st YEAR. 1000 ACRES. 29 GREENHOUSES.

THE STORRS & HARRISON GO.,

CATALOGUES AND PRICE LIST FREE.

PAINESVILLE, Lake Co., OHIO.

CARNATIONS

Any way you want them, direct from the sand or as transplanted plants.

Varieties that **PAY** to grow, and Cuttings or Plants that **WILL** grow.

Better write to me, I'll do my share toward giving you good value for your money.

ALBERT M. HERR,
L. B. 496. **LANCASTER, PA.**

OPHELIA.

A large pink CARNATION, a little darker than Scott. Winner of Craig cup for best seedling at Philadelphia, in spring of '93; will be ready for distribution Feb. 1st, at \$10.00 per 100; \$80.00 per 1000. *Those wishing to list it please write.

MOST LEADING VARIETIES READY AT SAME TIME.

MRS. FISHER.

(For summer blooming), now ready, from soil, at \$12.50 per 1000.

LADY CAMPBELL VIOLET, Rooted Runners ready, at \$2.00 per 100; \$15.00 per 1000.

EDW. SWAYNE, Kennett Square, Pa.

Carnation Plants.

From Cold Frame, well set with buds, \$4.00 per 100. Blanche, White Dove, White Wings, Dawn, Mrs. Hitt, Mrs. Reynolds, Purdue, Spartan, Lamborn, Louise Porsch, Garfield.

Mrs. Fisher, Portia and Lamborn, from greenhouse bench, to get room, \$6.00 per 100.

MARIE LOUISE VIOLETS, from 2-inch pots, \$2.50 per 100; \$20 per 1000. 300 large plants at \$5 per 100.

TERMS CASH WITH ORDER.

JOSEPH HEINL, Jacksonville, Ill.

CARNATIONS.

Rooted Cuttings. Young Plants. Field-Grown Plants in season. Send for prices.

Geo. Hancock & Son, Grand Haven, Mich.

Some Fine New Roses.

NEW CLIMBING POLYANTHA, CRIMSON RAMBLER, the best Novelty of the season. \$20.00 per 100; \$2.50 per 12.

NEW FORCING TEA, a rival of Bridesmaid, **MAMAN COCHET**, excellent for forcing as well as bedding. \$10.00 per 100; \$1.50 per 12.

50,000 YOUNG ROSES, strong 2-inch pot plants now ready. See AM. FLORIST Dec. 1 for price of large Roses and from open ground.

VIOLETS Mar e Louise { 2-inch pot plants well in
Nancy White { bud, \$3.00 per 100.

*For anything in the Florists line,

Address **NANZ & NEUNER,**
LOUISVILLE, KY.

ROSES.

Clean, healthy stock.

MERETS. BRIDES. MME. WATTEVILLE.

Strong plants, from 3-inch pots, \$5 per 100.

BRIDESMAIDS. METEORS.

Strong plants, 3-inch pots, \$6 per 100.

WOOD BROTHERS, Fishkill, N. Y.

FOSTITE, A PERFECT REMEDY for

Mildew on Roses and Carnation Rust.

Joosten's Magazine Bellows, the best out.

Fostite, 25 lbs \$2.00. Bellows, \$3.50. Cash with order.

Sold by all dealers and by

C. H. JOOSTEN, 3 Coenties Slip, New York.

NEW AND TESTED CARNATIONS OUR SPECIALTY.

FISHER & AIRD,
ELLIS, NORFOLK Co., MASS.

WESTERN FLORISTS.

Carnation Cuttings.

Rooted Cuttings now ready, and orders booked for immediate or later delivery. Stock clean and strong. Daybreak, Uncle John, The Stuart, McGowan, Dorner and other leaders. Write for prices.

Cut Smilax for Xmas, 15c. a string.

CHAPIN BROS., 16th & D Sts., Lincoln, Neb.

Mention American Florist.

Here's Your "Mums."

The very Best, and prices the lowest.
Stroog stock plants for cash.

Queen, Golden Wedding, Mutual Friend, Challenge, Inter Ocean Achilles, Mrs. J. G. Iis, Laredo, Beau Ideal, Pitcher & Manda, at 15c. each.

V. H. Hallock, Harry Balsley, Ivory, Mermaid, Mrs. Jerome Jones, W. H. Lincoln, L. Canning, Viviani Morel, Waban, Whildiu, Diana, Mrs. L. C. Madeira, Geo. W. Childs, Col. W. B. Smitb and Mrs. Rohb. Craig, at 8c. each.

FIRST COME, FIRST SERVED.

SOUTH SIDE FLORAL CO.,
SPRINGFIELD, ILL.

CHRYSANTHEMUMS

Stock Plants from benches and 6 and 7-in. pots.

GOLDEN WEDDING, GOOD GRACIOUS, M. WAN-AMAKER, ROSLYN, 20 cts. each; \$2 per doz.

L. CANNING, H. E. WIDENER, H. MAY, JESSICA, GOLD, and other standard sorts, 15 cts. each; \$1.50 per dozen.

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ROOTED CUTTINGS

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All the best new market sorts, 60c per doz.; \$4 per 100. Best market sorts of previous years, 35c per doz.; \$2 per 100. Ready for delivery Feb. 1st. Also CYCLAMEN persicum giganteum, 3/4-1a. \$6.00 per 100. GENISTAS, 5-inch pots, fine plants, \$12 to \$15 per 100. SMLAX, 2 1/2-inch pots, \$2.00 per 100; \$15.00 per 1000.
Address **J. G. BURROW,** Fishkill, N. Y.

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MRS. F. BERGMAN and MRS. E. G. HILL, \$3 per doz. YELLOW QUEEN, H. L. SUNDERBRUCH, MINERVA, EUGENE DAILEDOUZE, ALUMIN EYE, CHALLENGE, MAUD DEAN, CLINTON CHALFANT, ERMINILDA, MUTUAL FRIEND, 30 cts. each; \$5 per doz. Also all the other desirable varieties.

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MRS. E. G. HILL, best early, large flowering, pink, stock and 4-inch pot plants.....\$2 doz.; \$15.00 per 100
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C. CHALFANT, golden sport from J. W. White. Stock and 4-inch pot plants \$1.50 doz. 10.00 per 100
2 1/2-inch plants 7.50 per 100
WM. TRICKER & CO., Clifton, N. J.

Stock Plants of "Mums."

IVORY.....	Each	Dozen
KIOTO.....	15c.	\$1.50
FREEMAN.....	10c.	1.00
Orders booked now for rooted cuttings of Carnations.	10c.	1.00

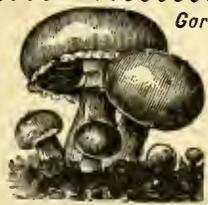
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Chrysanthemum Etoile d'Or,

(single yellow daisy), plants from 3-in. pots, now ready. Stock limited.

\$3.00 per dozen; \$20.00 per 100. 50 at 100 rates.

S. EDWARDS & SON,
478 Irving Ave., BRIDGETON, N. J.
The cut blooms are very desirable, and bring a good price.



Gardiner's Celebrated English Mushroom Spawn.
Fresh and Reliable.
\$7 per 100 lbs.
Special price on larger quantities.
John Gardiner & Co.,
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Coleus.

As fine a collection as can be found in the country.

ROOTED CUTTINGS GIANT DOUBLE ALYSSUM, &c. Send for list of prices of Coleus and Carnations.
W. R. SHELMIRE,
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The Greatest Prize Winning Chrysanthemum of the year.

"PHILADELPHIA"

RAISED BY **HUGH GRAHAM,** 1204 Chestnut Street, PHILADELPHIA, PA.

\$6 per dozen; \$35 per 100; \$200 per 1000. 50 at 100 and 500 at 1000 rates.

Ready for Delivery March 1, 1895. Orders filled strictly in rotation.

WINNER OF THE FOLLOWING PRIZES:

Silver Gilt Medal by the National Chrysanthemum Society of Great Britain, at London, England.	Certificate at St. Louis Chrysanthemum Show.
First Class Certificate by the National Chrysanthemum Society of the United States.	Certificate at Indianapolis " "
First Class Certificate at Toronto, Canada.	Certificate at Chicago " "
Silver Medal by the Pennsylvania Horticultural Society.	First Premium at Chicago " "
Silver Medal by the Newport, R. I. Hort. Society.	First Premium at Boston " "
Certificate at Baltimore Chrysanthemum Show.	Blanc Prize for best seedling at Philadelphia " "
Also additional award at Chicago of Silver Plate for best tested seedling.	First Prize for best vase of 50 blooms at Philadelphia " "

Buy direct from Introducers.

Stock plants of Chrysanthemum

MUTUAL FRIEND.

A few thousand left at only 40c. each; \$3.50 per doz.

SPEAK QUICK. Cash with order.

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J. MANZ & COMPANY
WOOD ENGRAVING & HALF-TONE PROCESS
ZINC ETCHING & WAX PROCESS
COPPER ETCHING & ELECTROTYPING
ENGRAVERS
HIGHEST AWARD AT WORLD'S COLUMBIAN EXPOSITION FOR SUPERIOR DESIGNING AND ENGRAVING
183 MONROE STREET
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Mention American Florist.

DO YOU KNOW . . .

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20 CANE STAKES FOR 1 CENT

A foot in length by simply using a sharp saw on a bundle of our best.

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ELECTRICAL AND MECHANICAL EXPERTS.
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CARNATION PLANTS, large, healthy, full of bud, mixed varieties of leading sorts, \$5.00 per 100.
PELARGONIUMS, 2 1/2-inch, \$3.00 per 100.
3-inch, \$5.00 per 100.

S. WHITTON & SONS, Wholesale Florists,
9 and 11 Roberts Street, UTICA, N. Y.

Cut Flower BOXES

Made up, nailed or lock cornered; or material cut to size ready to be nailed up at destination.

Plant Stakes.

1/4, 5-16, 3/8, 1/2, 5/8, 3/4, and 7/8-inch square, cut to lengths wanted.

When asking prices state sizes of boxes or stakes and quantity wanted.

Lockland Lumber Co.,
LOCKLAND, OHIO.

Something New
Which Prevents Greenhouses from
FREEZING.

For full particulars and price, address
M. E. DEAN, 54 Oliver St., Boston, Mass.

You will benefit the American Florist by mentioning it every time you write an advertiser in these columns.

Milwaukee.

The Milwaukee Florists' Club's 4th annual show was not a financial success, but it was the best Milwaukee ever had. According to the view of the expert visitors the exhibit of cut "mums," roses and carnations did not stand behind that of any other city. The judges, who did their work in the most satisfactory manner, were C. B. Whitnall, J. A. Pettigrew and C. H. L. Mann.

At the meeting which was held December 4 it was decided to settle the financial question as follows: To pay the premiums in full to outside exhibitors and non-members, and 60 cents on the dollar to the members of the club.

A. KLOCKNER, Sec'y.

"Violets Blue."

What a fund of good solid information the reporter for the daily press gathers in when he visits a greenhouse establishment. Below we reproduce a few extracts from a recent daily paper article on a "flower farm."

In the hothouses of the Meadow Spring Farm are twenty-two thousand violet plants. The Marie Louise, this season's bloom, is the largest ever grown, the actual measurement of many being two and one-half inches across; the stems are long and almost as thick as those of carnations; the color is very dark blue, with a little light tinting in the closely folded leaves of the center.

Some of these houses are heated by steam, but in the newer and more improved ones the flowers receive only natural heat, which comes through the glass covers, and on the north side are banked with straw and earth. When the severe cold comes these glass tops are covered with frames of wire netting, filled in with hay, and it is believed that the flower is sweeter grown in the cold houses, where there is no possibility of forcing it.

The bunches are made up with great generosity, costing \$4 a hundred, and prices never vary.

"There!" said he, holding up a stem upon which were six magnificent blooms of Golden Triumph, "has there ever been anything in carnations to beat that or approach it? And each bloom four inches across."

J. N. STRUCK & BRO.

Manufacturers of

• CYPRESS •
Greenhouse Material,
LOUISVILLE, KY.

FLOWER POTS.

We Manufacture all kinds of Flower Pots, etc. Making a Specialty of

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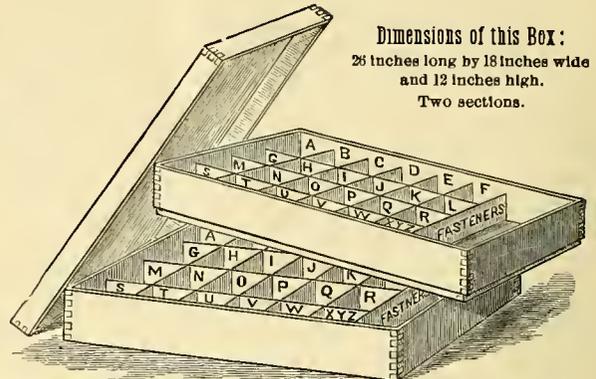
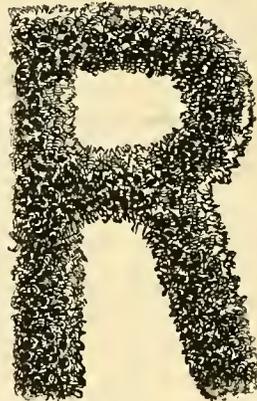
Send for price list and pamphlets (which will be sent free), and we know you will give us your order.

J. G. SWAHN'S SONS, P. O. Box 78, Minneapolis, Minn. When writing mention the American Florist.

TOBACCO Per 10 lbs 50c; 25 lbs \$1.00; 50 lbs \$1.50; 100 lbs \$2.50.
DUST. Extra fine, per 100 lbs. \$5. Sample FREE.

Vaughan's Seed Store, Box 688, Chicago. Mention American Florist.

FLORISTS' PINS.
GLASS HEADS, IN BLACK, WHITE AND VIOLET.
AUG. F. BRABANT,
54, 56 & 58 Warren Ave., New York.



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.

BOSTON FLORIST LETTER CO.

Manufacture THE BEST LETTERS IN THE MARKET.

Sizes 1½-in. and 2-in. 2.00 per 100. Patent fastener with each letter.

OUR NEW SCRIPT LETTER, \$4.00 per 100.

N. F. MCCARTHY, | Address 13 Green St.,
Treas. & Mangr. | Boston, Mass.

Address all correspondence to 1 Music Hall Place.

We have a new FASTENER which we consider a decided success. Any customers having old style fasteners which they wish to exchange, can do so without additional cost by writing us.

These Letters are handled by all the Wholesalers in Boston.

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ALL NEW GOODS SELECTED EXPRESSLY FOR THIS SEASON.

Flower Baskets, Imported and Domestic; Fern Dishes and Jardinieres in artistic patterns; Fancy Flower Pots and Pot Covers, Metal Wreaths, Doves and Cycas Leaves.

JUST THE GOODS EVERY FLORIST NEEDS.

Send for our Catalogue and compare prices before ordering elsewhere. You will find we are right in it this year.

M. Rice & Co.,

DEALERS IN FLORISTS' SUPPLIES,

23 & 25 North Fourth Street, PHILADELPHIA, PA.
AGENTS FOR MYER & CO.'S STANDARD IRON PLANT STANDS.



WHITE DOVES

FOR FLORISTS.

Largest and finest stock in the United States. Write for prices to

S. J. RUSSELL,

850 Montgomery St., Jersey City, N. J.

GLASS

which is absolutely perfect for modern greenhouse construction.

ROCK BOTTOM PRICES.

Send for Estimates. Satisfaction Guaranteed

REED GLASS CO.,

65 Warren Street, and 46, 48 & 50 College Place, NEW YORK CITY.

MAIL

LOCK THE DOOR BEFORE THE HORSE IS STOLEN DO IT NOW.

JOHN G. ESLER, Sec'y, F. H. A., Saddle River, N. J.

T. H. NEVIN CO.'S "GREEN HOUSE PUTTY"

(TRADE MARK.)

To be applied with a bulb. The only putty made to work this way for greenhouse sash.

PUT UP IN 20 lb. CANS.

Has been used by florists in this city for years. Try it and you will use no other.

Read the following good report of our Green House Putty.

PITTSBURGH, Pa., September 1st, 1894.

We have been using the T. H. Nevin Co.'s Green House Putty for some time, and are pleased to recommend it to all those who wish a number one article. It has always given us perfect satisfaction. When you use this Green House Putty you will be sure of good results from same. Signed

JOHN ROEBERS, Florist, Green Tree Boro., Pa.
HARTMAN BROS., Florists, Allegheny, Pa.

T. H. NEVIN CO.,

Corrodors of STRICTLY PURE LEAD, P. O. Box 928, PITTSBURGH, PA.

BEWARE OF IMITATIONS. None genuine unless labeled as above.

ALWAYS mention the AMERICAN FLORIST when writing to advertisers.

Do not delay your Holiday Orders

We have the largest stock of goods in the country, and can supply every demand if they do not come in all together at the last minute

Our new Catalogue has "caught on," and it will be nothing but "rush" with us for the next four weeks. Have you received that Catalogue? If not, send for it, but be sure to enclose your business card or other evidence that you are in the florist trade.

In Baskets, Jardinieres, Ferneries, Metal Wreaths, Decorated Flower Pots and Vases, we carry a full line of all the Latest Novelties and Newest Designs, besides an immense stock of Doves, Sheaves, Artificial Flowers, Cape Flowers, Immortelles, Letters, Inscriptions and Miscellaneous Supplies.

PRICES DOWN TO HARD PAN. 

M. BAYERSDORFER & CO.,

Manufacturers, Importers and Dealers in Florists' Supplies,

(WHOLESALE ONLY.)

56 North Fourth Street,

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Cycas Leaves.

Our Natural

Sago Palm Leaves are especially prepared for us with the most artistic skill. They look like fresh cut fronds and keep their appearance with the proper care for months. We sell according to size and quality at

40c, 45c, 50c, 60c,
75c and \$1 each.

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August Rölker & Sons,
136 & 138 W. 24th St.,
P. O. Station E. New York.

THE CHADBORN AUTOMATIC VENTILATOR

— IS AN —

*Absolutely Reliable
Automatic Machine,*

which may be set to operate at any temperature, and give any quantity of air desired for each degree temperature rises above desired point.

BY NO POSSIBILITY

can plants be overheated or chilled where they are used, as they make ventilating sash more sensitive to change in temperature than the most sensitive thermometer. TRY THEM.

CHADBORN-KENNEDY MFG. CO.
FISHKILL-ON-HUDSON, N. Y.



FANCY.



DAGGER.

EVERGREEN CUT FERNS

ESPECIALLY FOR FLORISTS' USE.

\$1.25 per Thousand Ferns.

IN LOTS OF 5,000 AND UPWARDS, \$1.00 PER 1000. Ferns furnished the year round. Special attention given to supplying the Wholesale Trade. Write for prices. BOUQUET GREEN For Holiday Trade, \$2.00 per barrel (thirty pounds); or \$6.00 per hundred pounds. Special reduction in express rates. SPHAGNUM MOSS a specialty. Long, clean fibre, dry or green, \$1 per barrel, or six bbls. for \$5. Write for terms on large lots. Terms cash, or goods will be sent C. O. D. CHRISTMAS TREES. American White Spruce, much better shape and color than the Blue Spruce, also Balsam Fir from 3 to 30 feet high. Special attention to supplying carload lots. Write for price list and terms.



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A First-Class Certificate of Merit Awarded for Metal Designs at Atlantic City Exhibition.
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New Catalogue (No. 4) containing over 1,000 Ornamental Cuts for Florist's use, such as envelopes, letter heads, bill-heads, cards, advers., floral designs, etc., at from 30c. and upwards. Price of Catalogue 25 cts. (deducted from \$1 order).

A. BLANC,
Engraver for Florists,
PHILADELPHIA, PA.

ACME FOOD FOR Vines, Plants, Fruit Trees, Flowers, and Greenhouse use.

One hundred pounds of this concentrated, soluble and odorless fertilizer contains as much food for plants as One Ton of sheep, cow or horse manure. Try a 5 pound box for \$1.00 on your Roses or Carnations, Smilax, etc. Send for descriptive circular. Can be applied dry or as a liquid; the dry food must not come in contact with the stem of plant.

Put up in boxes of 1, 2½ and 5 lbs. each, with full directions; sells at 25c., 50c. and \$1.00 per box. Sample boxes, postpaid, 20c. Discount to the trade.

HERMANN RÖLKER,
218 Fulton Street,
NEW YORK.
Mention American Florist.

Washington.

Flowers of all kinds are scarce, particularly roses, and the quality is not up to the standard. No one seems to have a good crop of roses at present: whether this is due to the efforts of some of the florists to keep their flowers back for the holiday trade, or whether it is purely an accident I can not say. The demand for flowers the past week was an improvement over what it has been for several previous weeks. The social season has not fairly opened and it is not expected that trade will be very brisk until after New Year's Day, which usually marks the beginning of receptions, dinners, teas and other doings of the social world which calls for the aid of the florists.

Chrysanthemums have had their day and are now a thing of the past, consequently the prices of the other flowers has slightly advanced and the demand for them increased. Roman hyacinths in pans, and azaleas and poinsettias in pots are beginning to attract attention to the florists' windows. There is no demand yet for house plants such as rubbers, palms, pandanus, dracenas, etc. The only plants selling are such as have flowers on them. REYNOLDS.

Destroying Moles.

A correspondent wants to know how to exterminate moles without the use of traps. They can be driven out of their runs by the use of kerosene. Find where the runs are and with a stick make holes a few feet apart, pour in a tablespoonful of kerosene and the destructive little brutes will vacate their hunting ground. There are traps made especially for catching moles and that would be the only way to exterminate them. They are not so generally a nuisance here as in Great Britain, where in a single night many a fine lawn is sadly disfigured. In England the mole catcher is a professional man, and of as much importance in the community as the insurance agent. W. S.

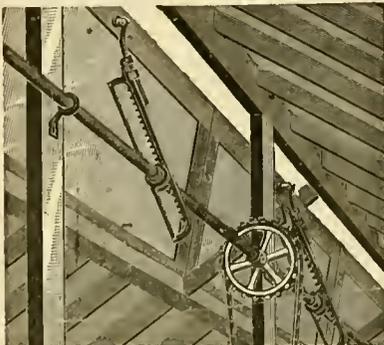
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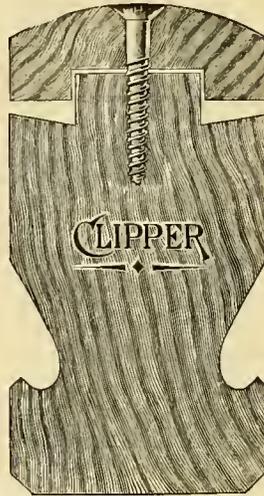
FLORIST!

Aren't you tired going through your houses two or three times a day year after year and lifting your ventilating sash one at a time and propping them up with sticks or pots, with a chance of having sash blown off and broken glass to pay for? If you are



We have got just the thing you need, the NEWEST and BEST thing out. "The New Departure" for about half the cost of the old style. Send for Descriptive Catalogue to

J. D. GARMODY, Evansville, Ind.



"Proof of the Pudding"

KENT, O., June 4th, '94. THE LOCKLAND LUMBER CO., Lockland, Ohio. Dear Sirs:—The Cypress lumber furnished by you for the erection of our greenhouses has enabled us to erect substantial and neat appearing buildings. The drip groove rafters are very strong and very neat in appearance, so much so, that passers by, while they were being primed, asked what we were going to use the moulding for. We are particularly well pleased with the square cut Red Cedar posts, these being well adapted to our method of erection. The ridge and side plates of the Cypress material are also very strong and neat, likewise the strong doors of same material, which stay right there; a great thing in a greenhouse, where there is always more or less moisture. Will build again in the near future and of Cypress material sure. Yours truly, GEORGE F. BRAYBON.

GUTTER MATERIAL, RIDGES, SASH, ETC.

The finest CLEAR CYPRESS used.

For circulars and estimates ADDRESS

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713, 715, 717 & 719 Wharton St., Philadelphia, Pa.

BRANCH WAREHOUSES:

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STANDARD FLOWER POTS

Every user of Flower Pots should correspond with us before purchasing elsewhere. Our facilities are unequalled.

A. H. HEWS & CO., N. Cambridge, Mass.

Announcement to Florists.

We desire to announce the dissolution of the firm of Sipple Doppf & Co., and to introduce to the trade its successor, The Syracuse Pottery Co., which will be under the management of William Doppf and Conrad Breitschwerth. The business will be conducted as heretofore, except on a larger scale to meet the growing demand for our goods. We have accordingly enlarged our plant and capacity, and with unsurpassed facilities are now prepared to fill the largest order on short notice. Our latest improved machines are turning out the best and most serviceable flower pots in the market, and assuring you of our intention to lead in further improvements we solicit a continuance of your patronage in the belief that we can supply just what is needed at a price and in a manner satisfactory to all. Send for price list and samples and we know you will give us an order.

SYRACUSE POTTERY CO.

OFFICE:

403 North Salina Street, SYRACUSE, N. Y.

STANDARD FLOWER POTS.

We will furnish you with prices on application, and will fill all orders promptly. Our Pots are excelled by none in the market.

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Crabb & Hunter, Florists & Fuel Oil Plant Contractors,

Also Dealers in OIL BURNERS, and Agents for Snell's Hydraulic System of using Oil for fuel purposes. No odor, and 1/2 to 1/2 cheaper than coal. 509 Madison Ave., GRAND RAPIDS, MICH. Send for Circular.

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Standard Flower Pots.

10 per cent. off for cash with order. Special discount on large orders. We carry a large stock on hand of good strong pots.

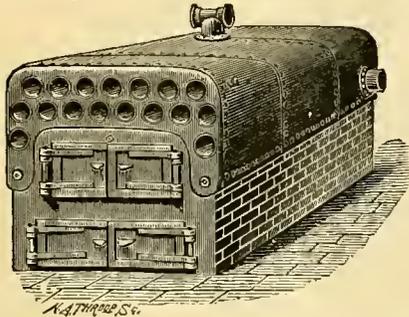
PRICE LIST OF STANDARD FLOWER POTS. Table with 2 columns: pot size and price per 1000. Includes sizes like 1 3/4-inch, 2-inch, 2 1/2-inch, 3-inch, 3 1/2-inch, 4-inch, 5-inch.

Address HILFINGER BROS. POTTERY, FORT EDWARD, N. Y. August Rolker & Sons, 136 & 138 W. 24th St., New York City, New York Agents. Mention American Florist.

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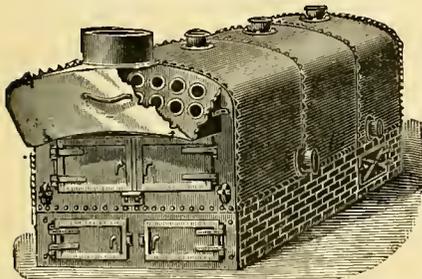
DEVINE'S BOILER WORKS.
THE FLAT TOP TYPE
Wrought Iron Hot Water Boilers.



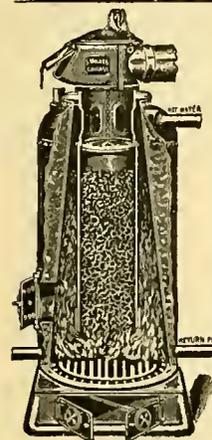
Capacity from 350 to 10,000 feet of four-inch pipe.
SEND FOR NEW LIST.

FRANK DAN BLISH, Att'y,
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IMPROVED
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41 to 55 Erie St., CHICAGO.



Boilers made of the best of material, shell, first-class sheets and heads of steel, water space all around (front, sides and back). Write for information.



WILKS HOT WATER HEATER.
BEST IN USE
FOR GREENHOUSES, LARGE and SMALL.
All Steel. No Coils or Cast Iron Sections.
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EVANS' IMPROVED Challenge Ventilating Apparatus
Write for Illustrated Catalogue.
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THE GREAT ANTIPEST.
For particulars, see next week.
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H. M. HOOKER COMPANY,
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NATURAL GAS MADE GLASS,
FOR GREENHOUSES.

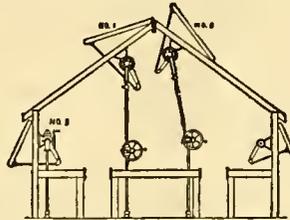
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The only Certificate of Merit awarded for ventilating apparatus at the St. Louis Convention was to the

POPULAR STANDARD VENTILATING MACHINE

The florist's friend in working and prices.



No repairs for 5 years. no chains to break as is the result with others.

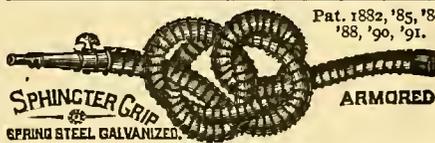
Opens Sash uniform on 100 foot houses. A new device.

Send for Catalogue and Estimates.

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THOS. W. WEATHERED'S SONS,
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Horticultural Architects and Hot Water Engineers
Send for Catalogue, enclosing 4 cents in stamps.
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159 and 161 S. Fifth Avenue, NEW YORK,
NATURAL GAS MADE GLASS,
FOR ROSE HOUSES, CONSERVATORIES, ETC., ETC.



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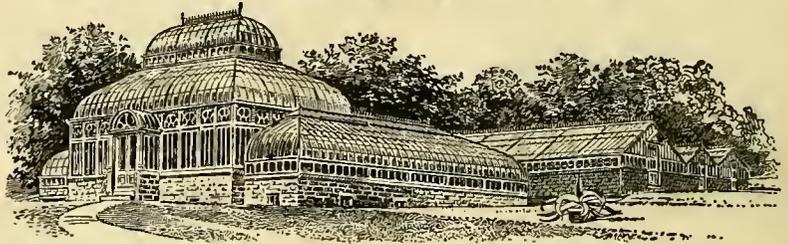
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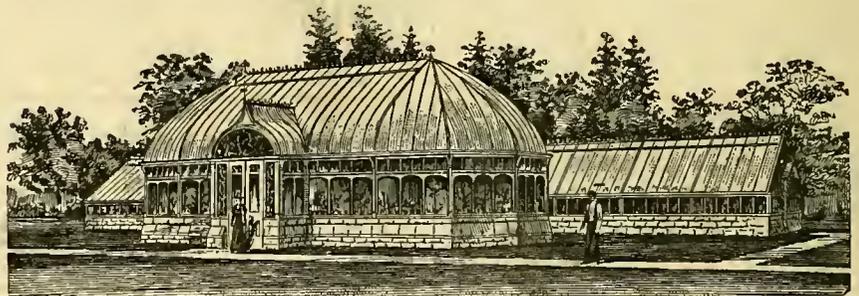
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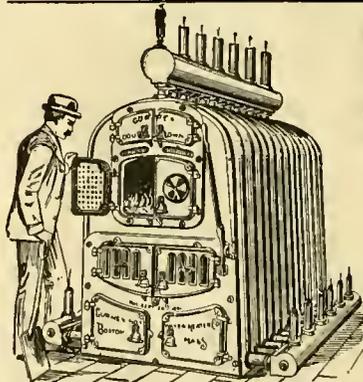
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Vol. X.

CHICAGO AND NEW YORK, DECEMBER 22, 1894.

No. 342

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SOCIETY OF AMERICAN FLORISTS.

J. T. ANTHONY, Chicago, president; ROBERT KIFT, Philadelphia, vice-president; WM. J. STEWART, 67 Bromfield St., Boston, Mass., secretary.

The new officers to be installed Jan. 1, 1895, are: EDWIN LONSDALE, Chestnut Hill, Philadelphia, president; E. C. REINEMAN, Allegheny City, Pa., vice-president; WM. J. STEWART, Boston, secretary; H. B. BEATTY, Oil City, Pa., treasurer. The 11th annual meeting will be held at Pittsburg, Pa., August, 1895.

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SOCIETY OF AMERICAN FLORISTS.—Mr. W. N. Rudd, secretary and superintendent of the Mt. Greenwood Association, Chicago, Ill., has been appointed on the executive committee, to fill out the unexpired term of Mr. H. B. Beatty.

THE annual reports of the conventions of the Society of American Florists show an improvement each year. In the report for 1894 we notice that Secretary Stewart has made the index much fuller than heretofore. This is a step in the right direction, and is to be warmly commended.

THE RETAIL TRADE.

The Christmas Rush.

Preparations for the holiday trade will be about completed by the time these notes go to press. The trade in Christmas greens and other holiday decorations is now well under way and the sooner we can get this stuff off of our hands the better able we are to handle the cut flower trade next Monday and Tuesday. So let us clean the decks of this material as much as possible before the real rush begins. As far as practicable all orders for these goods should be sent out before the eve of the holiday. This of course can not be done in every instance, even on advance orders, as often the buyer will insist upon having his goods delivered at a specified time. Many of your customers will of course send in their orders for this class of goods at the last moment and you are obliged to handle them at the time when you would rather wish that "Christmas greens" weren't in existence. However, if we have a stock on hand it must be worked off no matter how pressing the time. Engage plenty of help, and competent help it must be too, or else it is no help at all. Don't expect your head salesmen to drop their work behind the counter to wait on a customer for a 25 cent wreath of holly. Systematize your work thoroughly and as far as possible assign your men to positions best suited to their ability. Put a good salesman in charge of your department for greens and decorations of this class, or several if your business warrants, and don't let him bother his head about cut flowers. Such a person need not necessarily be a florist; any good salesman or saleswoman will get the run of prices in a short time and is able to attend to this duty satisfactorily. You want a handy boy to do your wrapping of bundles and packages; and above all an intelligent person to keep posted on orders is most necessary. If you have a regular bookkeeper this is his duty; if not put an efficient clerk in charge unless you are able to supervise this department yourself. Remember it is of the utmost importance that no orders be overlooked and that everything is sent out on time. Don't make the mistake, as some of us are apt to do in a rush, of neglecting small and comparatively unimportant orders. Such neglect may cost you a good order in the future and will injure your business in every way. In our larger cities you can bring the regular messenger service into requisition, but no matter what the means or the cost so long as orders are taken for delivery the goods must go out on time even if the extra expense of delivery eats up the profit.

But now about cut flowers. Your orders for stock have of course been

placed by this time. Although the commission men or the grower, if you deal with him direct, will not give you a written guaranty that your order will be filled to the letter, you will, or ought to have, a fair idea of what stock you might reasonably expect. Of course in ordering your supply you work somewhat in the dark; in fact it is more or less a speculation. Comparatively few people place their orders ahead any length of time and therefore you are unable to tell just what and how much you do need to supply your demand. Things have changed considerably since the palmy days along in the eighties. In those times everything in the shape of flowers could be sold at the holidays and at a good profit too, and the danger of overstocking was not very great. But at the present time, especially when prices are up to the top notch, it behooves us to be mighty careful. If you have been through several of the holiday campaigns in later years you will see the force of these remarks, but even then you are not sure of your ground. But on what basis can we make our calculations, both as to supply and prices? Shall we take the state of the market for the week preceding as a safe criterion? If the market is low and the supply is plentiful we may feel warranted in expecting these conditions to have its influence as regards prices for the holidays, and if the figures asked for advance orders by the wholesale dealers (which is at best but speculative) seems too high, we may be inclined to hold off placing our orders, taking our chances on a break in the market. But here we forget the weather clerk; if he pulls on your side and serves up clear and bright skies you may win out, if not you are left. On the other hand stock being scarce and consequently high a week or two before the holidays you argue that under those conditions you can not expect to stand out for low prices and you eagerly embrace the chance (at good round figures) which is offered you (reluctantly) by the wholesale dealer of placing your order. But alas! you again reckon without your host, you have forgotten entirely that the shipper of pickled stock is still doing business at the old stand. In rushes the stock and down goes the price. You have contracted to pay \$15 for your roses and your smart competitor who held off buying to the last minute buys the same stock for \$8. On the whole it seems the safest course to contract, if possible, for at least a good part of the supply you expect to use; sufficient at least to supply your regular patrons; on the balance you might take your chances. But are we sure of receiving a first-class article if we contract to pay a first-class price for the same? This is a question which too often has to be answered in the negative. But we should insist on it; it is the greatest kind of an imposition to exact a first-

class price for a second or third rate article. If the goods are not up to grade at which prices are made reject them. To pay \$15 per 100 for roses which at retail are barely worth \$1.50 or \$2 a dozen is worse than folly. To charge your customers \$3.50 or \$4 a dozen (which price includes your legitimate profit) is worse still. Be content to do a smaller business rather than contend with the work and worry of handling a lot of stuff which yields nothing in return but a magnificent crop of "kicks" from your pet customers.

But now that you have solved the difficult task of procuring a good stock of material let us hope you haven't neglected a few small but very important things. The weather is balmy and spring-like to-day, are you prepared for delivery at a temperature of 15° below zero? Is your wrapping material ample for all demands that might be made for it, and is it kept handy for instant use? How is your stock of boxes? Don't neglect to provide a good stock of large "packers," you may need them. There is nothing more exasperating than to run short of proper packing material when you are caught in a rush of business. B.



Carnation Notes.

The value to the trade of the coming convention of the American Carnation Society to be held in the grand old city of Boston in February next will be very great. The growers who have never attended these meetings probably consider that they get a full synopsis of the proceedings as published in the trade journals, but this is but a small part of the benefits derived. The sessions take up about four hours per day and the balance of the time is devoted to examining the flowers on exhibition and in general conversation. There was a time when conversation between growers brought out very little knowledge beneficial to each other, as the greatest of secrecy was then the rule, and one grower would never think of telling another of any method of growing that would serve his neighbor; fortunately those times are of the past and if a man fails to acquire knowledge in any form to-day it is his own fault, and there is no place where so many points are gained as at a gathering of a number of growers in any special line.

The exhibition to be held at the convention will undoubtedly be the greatest show of carnation bloom and plants ever seen in this country, and this fact alone will be well worth the time and expense incurred in attending, as all of the new sorts to be introduced the coming year will be shown to secure the approval of the society and a certificate. The prizes offered will bring out a large display of the standard sorts as grown to-day, thus giving a chance for comparing old and new, and right here I would advise anyone showing a new seedling to exhibit not only the bloom but also a plant which has been grown in a pot for at least a month; this will show to the people what most growers wish to see now before purchasing, the general habit of growth. If it is worth your time and expense to exhibit, do it as thoroughly and

well as lies in your power and the results will well repay you. It is often said that flowers of the carnation can not be packed to carry in safety long distances and be fit for the exhibition table. This is certainly a very great error, as it is a simple matter to follow instructions given in this column several weeks ago as to packing for market, only I would advise a strip of thin tissue, or what is still better, waxed paper between each row of flowers, thus securing to a great extent the flowers from bruising each other.

The Mass. Hort. Society have very generously offered the use of both of their halls, the upper one for the exhibition and the lower one for the meetings, to which everyone interested is cordially invited. Several of the executive committee were in Boston last week perfecting arrangements for the convention, and they wish me in this column to extend their hearty thanks for the courteous attention shown them by the gardeners and florists of Boston. The committee was taken in hand even upon arriving at the boat of the Fall River Line before leaving New York by our friend Stewart and attention never stopped until the departure of the train for home.

While in Boston we had the pleasure of taking a trip to the houses of Wm. Nicholson at Framingham. His place is in perfect order and every plant shows remarkable vigor and health. Ferdinand Mangold does splendidly with him, producing large fine flowers upon very good stems and better plants would be hard to find. Hector, a variety seldom seen in the vicinity of New York, does well as does also E. G. Hill and Mrs. Fisher. The latter is the standard white in and around Boston. But the pride of Mr. Nicholson's heart is his namesake, Nicholson; no wonder, for this sort does more than well with him, producing large, well developed bloom upon an A1 stem and in great abundance. As this variety sells better in the Boston market than Wm. Scott it is likely to become very popular. Mr. Nicholson has a new white seedling which up to date has proven a success and will undoubtedly be heard from in the future. Daybreak, Scott and McGowan are also doing finely as does everything else which Mr. N. handles. There seems to be a charm in this growers fingers which many would be glad to acquire.

We also had the pleasure of calling upon Mr. Sewall Fisher, a near neighbor of Mr. Nicholson, where we saw a house about fifty feet long by twenty wide which was a great treat, as it contained a large number of new varieties, some of which would certainly have been on the market long ere this had they been in the hands of some other grower, but Mr. Fisher prefers now to test all of his seedlings four or more years before disposing of them. Among the most noticeable of his productions is a crimson, as good a flower as we have ever seen in this color, rapid grower, foliage somewhat like Scott, the only drawback as seen was its stem, which was a trifle weak. Crystal is a very good white, finely shaped flower and excellent habit in growth. There are also two other whites which show up well, one being of a dwarf habit with flower of fine texture and very large smooth round petals. Mr. Fisher has also several promising scarlets but in our opinion a little off in color. It was hard to part with Mr. F. as a house containing principally seedlings has a great fascination for every grower of carnations.

Our next stop was at Coolidge Bros., South Sudbury, J. Butterfield, superintendent,

where Mrs. Fisher is grown almost exclusively and it is done to perfection. Here were flowers that would measure three inches and the quantity of buds to the plant was something astonishing. He also has about five hundred plants, and such plants, simply immense, in fact the finest plants of this sort I ever saw and that is saying a great deal.

Our trip was more for the purpose of visiting the carnation growers but as Waban Rose Conservatories were in the same route we called on Mr. Montgomery and the grower who goes within hailing distance of Boston and does not run out to Natick to visit this rose growing plant misses one of the greatest sights on earth. A cleaner, more orderly range of houses is not to be found. Such Brides, Mermets, well we thought we had seen roses before. I was told last summer when in Boston that New York never saw the best Brides and I was inclined to think there was a little conceit in and around Boston, but that is all right, it was all truth; we acknowledge the fact.

CHARLES H. ALLEN.

Carnation Uncle John.

No variety seems to have met with so much favor and disfavor, about equally divided, as the Uncle John, and of all the varieties sent out by us, of none have I formed such a high opinion combined with pleasure and satisfaction as this. At this time I have a bench of this variety that eclipses all my former efforts.

Every new carnation has to break its way into public favor by its own merits, and when once thoroughly understood comes out victorious. Many a new plant has been shelved on account of its natural habits not being understood and consequently its culture more or less wrong.

At our present time when so many varieties, good and worthless, make their appearance, one is inclined to grow suspicious and look at all new things with disfavor, and at the least unfavorable results will throw the whole stock overboard without taking the trouble to ascertain as to the cause of failure. If we all would do the same we would go backward, not forward. Only by prying into nature's secrets, by rehearsing our treatment and making comparisons can we get light. In other words, we have to experiment. We are not ready enough to take nature's hints and reason therefrom; we are apt to fit everybody's shoe over the same last; we are too much accustomed to our own methods, and want to bend nature's ways to our habit of growing things.

I will give my experience with this variety. In the first place Uncle John is the strongest grower that has so far come under my hands, and an equally free bloomer. All the reports last fall show this: That everywhere Uncle John has made the strongest plants, and this through a very dry summer. I repeat again through every dry summer. The seed plant was the largest of all my batch of 1891 seedlings; it has since been the largest every year, and we have had dry summers for the last five years. Can we not take the hint nature has given us in regard to this variety?

We will first consider its exceptional strong growth regardless of the dry atmosphere. The cry went up "Uncle John takes the rust; it is full of bacteria." It surely had no disease when growing in the open dry air, or else it would not have made such large plants. The disease made its appearance when the plants were brought into the moist houses,



THE VERY REV. S. REYNOLDS HOLE.

Have not Dr. Arthur, Prof. Bailey and others told us that spores of fungoid growth germinate quickest in a moist atmosphere, and to guard against keeping the plant wet? My success in growing this variety, and others as well, is in heeding these hints and bringing them into practical use in the houses.

When we house our plants we give them plenty of bench room. We planted ours a full foot apart each way, and already at this time they would require more room, having grown together so that by looking over them now no single plant can be distinguished. Its strong growth demands space, and fifteen inches would not be too much. Give a plant freedom in its growth, health and an abundance of perfect flowers will be the result. Crowd them and impair its growth, disease will find ready lodgement in a short time.

When transplanting from the field we use more shading and less water. Before we commence to plant a house we apply a heavy clay wash on the glass. This makes the house cooler and we can use less water. If rainy weather should follow it will wash off the shading, and if it should take it off too soon it will pay to renew it if necessary. Then it can be washed off gradually so that the plants will not at once be exposed to the sun. This year for the first time we use the wire netting as described in No. 330 of the AM. FLORIST and find it a wonderful help to keep the plants in a healthy condition. Although grown together our Uncle John have between the rows on the ground an open space six inches high and six inches wide. This insures a good circulation of air when needed, and here we apply the

water by pushing the hose across the bench. In this the netting is also a safeguard to the plant. We never allow the foliage to get wet and only syringe when we want to apply the copper solution which we use every two or three weeks as a preventive.

This fall I had a striking example with a bench of Albertini. Being sturdy upright growing plants I did not think it necessary to use the wire netting. At the same time I was afraid of breaking or bruising the plants when pushing the hose through between the plants, so we watered over the plants whenever needed. Being nice sunny weather we supposed no harm would come from it, but once or twice too late watering in the day and once getting caught with cloudy weather following right after, brought us a full crop of spot, the whole bench being affected. Two strong doses of copper and cleaning the plants set things to right again, but I lost a month's growth by thinking it "good enough" and "I guess it won't hurt."

It has been proven that one variety is more subject to disease than another. I have had no experience with the rust, but I am convinced that the spot will always follow mistreatment and neglect. And it seems strange to me that Uncle John, with its vigorous growth, shall be one of the first to fall a prey to disease. And still more strange it is to me that right in localities where they reported Uncle John the best and strongest grower the cry is now raised "Uncle John is a failure, we have to throw it out." The plea that this variety is not adapted to the locality will not hold, for it would not make such a splendid summer growth if it were not.

My experience has been that when I could not grow a variety it was a failure in its summer growth as well as through the winter, and in this way showed its entire inadaptability to the location. When soil and climate is suited through the summer, why should it be adverse in the winter under glass when we have the power to regulate.

As I said before we do not study nature's workings close enough; we want to suit things more to our convenience and liking, and most times make sorry failures. When we are compelled to cope with disease we have to make it as uncongenial for it as possible and fight it.

At the last meeting of the Carnation Society at Indianapolis the remark was made that we would have to grow varieties that will not be affected with the rust. An effort was made to find one that never was affected with the disease, but proved to be a failure. If free in one locality, it was found diseased in another.

All I have said in regard to Uncle John will hold good with any other variety. At our place we give them all the same treatment, and if anyone will think it worth while to visit our houses he will be convinced of this; that, given the proper treatment, Uncle John is one of the most profitable varieties grown.

Lafayette, Ind. FRED DORNER.

New Carnation Names.

The following have been registered with the committee of the American Carnation Society since the last report printed in the FLORIST:

By H. Grout, Springfield, Mass.: The Grout, scarlet.

By Mrs. Chas. T. Starr, Avondale, Pa.: Lonesa, variegated pink on white ground; Marie Starr, white; Chas. T. Starr, scarlet; Mrs. Chandler, red.

By Taylor's Greenhouses, Dunkirk, N. Y.: Lake City, pure white regularly striped with deep pink.

By W. R. Shelmire, Avondale, Pa.: Daisy Bell, white penciled with bright red markings.

By W. J. Snow, Waterbury, Conn.: Agnes Snow, pink.

By J. N. May, Summit, N. J.: Dean Hole, Maud Dean, Lily Dean, Lena Saling.

By Edward Swayne, Kennett Square, Pa.: Jack Frost, white.

By W. P. Simmons & Co., Geneva, O.: Rose Queen, pink.

By Thompson Bros., Kennett Square, Pa.: Lawrence Thompson, pink.

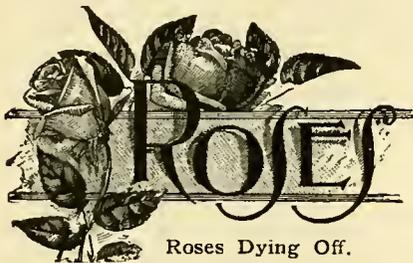
By the Redondo Beach Co., Redondo, Beach, Cal.: Miss Donnelly, deep pink; James Corbet, coppery; Panchita, white striped carmine; Paloma, pink center, white edge; Mrs. Sproule, carmine pink; Marina, light scarlet; Mrs. Childs, blush, striped pink; Chuseo, cream, striped lilac; Dr. Patzki, light pink, striped red; Arcadia, very light pink; Mary Shepherd, pure white; Casa Blanca, pure white; Los Angeles, pure white; Amado, pure white; Preciosa, pure white; Ida Feder, light pink, striped carmine; Souriza, white, striped and painted lilac; Encanto, light pink, edged blush; Conchita, light shell pink; Moreno, dark crimson; Gov. Markham, white, shaded and penciled carmine; Dr. Marchand, yellow, striped red; Dr. Del Amo, white, striped and edged with crimson; Orifino, pure lemon yellow.

Lancaster, Pa. ALBERT M. HERR.

The Very Rev. S. Reynolds Hole.

England's greatest rosarian needs no introduction to the readers of the AMERICAN FLORIST. There is probably no man

living whose name is more honored by florists and flower lovers the world over than the cheery, sympathetic, big-hearted author of "A Book about Roses" and "The Six of Spades." Dean Hole, who is now lecturing in America, is a man of most striking individuality, of commanding presence and stalwart figure, and has been well termed a fine example of muscular Christianity. In his addresses, as in his writings, he is earnest and fascinating, his conversation bubbling over with delicious humor, and his face fairly radiant with kindly good nature. Next to the flowers themselves his most cherished companions are those who, like himself, love the fields and flowers, and he is never happier than when in the company of the gardeners and the florists. Few men there are who can look back over a long life so productive of good, so influential for purity. One life such as Dean Hole's is worth more to humanity than that of a thousand rigid theologians. We need more like him.



Roses Dying Off.

Can you tell me the cause of my roses dying off at the top when in full crop? I enclose a sample of the wood. The Bride, Mermet and Niphetos are most affected. Have had to cut the plants down nearly to the soil, and the old wood turns brown in places. The trouble began early in October.

READER.

Ontario.

Judging from the samples received and his description I believe the trouble has been caused by allowing the temperature to drop a little too low at the time time he names (beginning of October) in conjunction with a little too much moisture.

At that season of the year such cases as his have often happened, more often in past years than at the present time, as growers generally now understand the importance of watching the conditions carefully and avoiding such as would produce this trouble. On two or three occasions I have written articles warning growers that such trouble as this would very likely be the result if precaution was not used to avoid it and I am afraid many of your readers will think me very tiresome to keep repeating it so many times, but the present case and some others I have heard of this season can only be covered by doing so again.

During the fall it often happens that the temperature outside is hardly cool enough to warrant making fires for the greenhouses, the inside thermometers not falling below 56°. Under these conditions a dew forms on the young foliage and in the early morning it is a beautiful sight to go through the houses and see from the edges of the leaves miniature sparkling pearls suspended. Under such conditions the wood becomes very soft and let these conditions be repeated for two or three nights in succession and the result will be that the next bright sunny morning a careful observer will see some of the youngest leaves begin to wilt as if the plant was wanting water. Should the

sun remain bright for a few hours a large proportion of the young foliage will have the same appearance and in an incredibly short time they will begin falling off and much of the young wood turn a dark color. I have seen the wood die back to the older growth in three or four days from the time it was first discovered. Of course it is much worse in some cases than others. Should there be any part of the house which from various causes has more moisture than any other here it will always be the worst. In many cases I have known the trouble to increase very materially by the person in charge thinking the wilting was caused by want of water and giving a syringing. This is as bad as taking a pneumonia patient and giving him a cold bath. If he survives it he will be regarded as disease proof or else a confirmed invalid forever. The poor rose plant that survives the above treatment will be in about the same condition. To avoid this, as soon as the weather begins to feel the least bit like running the outside temperature down below 60°, start a little fire in the house, just enough to dry up the surplus moisture and prevent the forming of dew on the plants. If this causes the temperature to rise too high leave on a little air at the top ventilators. This is equally applicable for spring as well as fall. This treatment is the only safeguard for plants that growing freely with the wood soft, such as it usually is in houses that are intended for growing roses in fall and winter. Much of the danger from this trouble can be averted by keeping on air day and night as long as possible in the fall, thereby making the plants more robust and hardy, and if it is absolutely necessary to do without fires under such conditions as above, then hold the plants considerably drier, so as to make the wood moresolid, and above all avoid everything in the way of moisture in the house except in the morning and that only on bright days. Plants treated thus will not make so much growth but what they do make will be solid and when the fire heat is applied they will very quickly respond and give much finer flowers than those treated to too much heat and not enough air. Nature, the great and only true teacher, tells us this as it does many other things which should be of much more service to us than they are.

JOHN N. MAY.

Twelve Varieties in one House.

How shall I handle the following varieties of roses, all growing in the same house: Watteville, Sunset, Perle, Gontier, Bride, Bridesmaid, Wootton, Beauty, La France, Testout and Kaiserin. The house is 60x13, heated by hot water.

Cleveland, O.

DARBY.

Replying to above, would say that this is rather a difficult question to answer satisfactorily, as the varieties he names are some of them of different classes, consequently require somewhat varied treatment to obtain the best results, but being all in the same house this is rather out of the question. As it is I should advise adopting the treatment most suitable for the largest number. Presuming that these are of the tea class, from the list given, give them the treatment most suitable for this class, which would be an average night temperature of 56°, with 62° or 63° by day when cloudy, and on bright days begin putting on air as soon as the temperature reaches these figures, gradually increasing it as the thermome-

ter rises till it gets to 76° or 78° with abundance of air on. As soon as the temperature begins to decline in the afternoon reduce in the same proportion. Water freely when the soil shows a little indication of getting on the dry side; syringe or hose the plants every fine day, but do not water again till the plants need it at the roots. Keep all insects off by fumigating or otherwise, and keep the plants free of dead leaves and all weeds and rubbish from the soil. When the soil indicates that it is getting a little on the dry side give liberal waterings, and then let it go till the same conditions present themselves again; meantime syringe the plants freely every fine morning. By following this treatment really fine flowers can be obtained of nearly all the varieties named by "Darby." Those that will not do so well with this treatment are Papa Gontier and Wootton, which really require a somewhat cooler treatment to get them in perfection. American Beauty also requires a somewhat graded treatment from above to do it justice. Furthermore its habit of growth makes it unsuitable to grow mixed up with so many others, and while La France and Mme. Testout can be grown in the same house with teas it is not advisable to place them there if it can be avoided, for while the system of treatment is the same for both classes in the main, yet there are little items in their treatment which differ and though small in themselves yet of vital importance to the plants. Far better to confine the varieties to one class and take the very best varieties at that; grow these really well, and there will be much more satisfaction with them, and the number of flowers obtained during the season will be much greater than when so many varieties are grown together in one small house.

The general laws governing plant life are in many respects identical with that of the animal kingdom. The main factors conducive to the health of both are cleanliness, fresh air, plain wholesome food, taken as required only, and for the balance good plain common sense will supply it if only applied; at least such has been the experience of JOHN N. MAY.

Rose Growing in Denver.

We present herewith an engraving from a photograph of a house of Bridesmaid roses at the establishment of the establishment of the Colfax Floral Co., of Denver, Col. The photograph was sent us by Mr. Elijah A. Wood, who says it is forwarded to show what is being done in rose culture in the far western country where it has always been claimed that it was impossible to grow roses with more than six inches of stem. The house illustrated certainly shows a fine lot of plants in excellent condition, and is a good example of progress in the Colorado capital.



Orchids for Christmas.

Among Christmas orchids, calanthes and the varieties of Cypripedium insigne will occur to all. Dendrobium Ainsworthii can well be depended upon if enough stock is carried. It is as easy or easier to increase than noble. D. Schroderianum and the allied D. bigibbum are



A DENVER ROSE HOUSE.

the most durable in flower of all orchids. I have had *bigibbum* keep in good condition on the plant from November till March.

The *phalaenopsis*, such as *amabilis*, etc., often flower at Christmas, they endure fairly on the plant, but are next to useless as cut flowers, so fugitive are they. *Saccolabium giganteum* on the other hand will keep a week or more, and in the better varieties is a superb flower, with a most delicious fragrance.

Cattleyas Percivalliana and *Trianae* are the reliance for Christmas. *Laelia anceps* and *L. anceps alba* both flower in the early varieties especially if freshly imported. Some trouble was often had with the latter, from its susceptibility to damage in transit. The importations arriving when first discovered mostly lost their dormant buds. It is one of the latest growers, and needs the heat kept up well at the end of the season. It is a splendid thing when well done. *Lycaste Skinnerii*, and also *Oncidium Lanceanum* can both be managed for Christmas. To my mind the latter plant is far ahead of any cypripedium, and being so easy to grow and increase, it is strange, seeing it often blooms twice a year, to find it neglected. It will not stand any "cool treatment" nonsense however.

Odontoglossum pulchellum majus if you can get it in good varieties is a gem. It is sure to bloom and grow twice a year and can be divided and grown as readily as a *lyciste*. Such orchids as this *odontoglossum*, which expect to grow after flowering in midwinter, should have a grow-

ing temperature given them by those who desire to flower them, and house of whatever size distinct from the general collection, which is now very largely at rest.

Trenton, N. J. JAMES MACPHERSON.

Cypripedium H. Ballantine.

This pretty hybrid is one of the *Fairieum* crosses, the result of crossing *C. purpuratum* with *C. Fairieanum*, and was first raised by Mr. Seden at Veitch's. The year following we flowered about one-half dozen plants of the same hybrid, which we raised here. Some of these were more beautiful than the original sent here by Messrs. Veitch.

The plant is of dwarf habit, leaves about five inches in length and about one inch wide, light green and faintly tessellated, varying in some plants. Flower scape nine inches long, dorsal sepal one and one-half inches broad, the same in depth, white ground, green at the base, with blackish purple longitudinal lines up the center, the side lines beautifully reticulated with vinous purple. The petals two inches long by three-quarters of an inch broad, drooping gracefully, upper half pale green at the base gradually shading to vinous purple, the basal half white shading to purple; the upper portion heavily margined with deep purple and undulated, the lower portion margined light purple and beautifully ciliated. The surface of petals three parts their length from base are densely and regularly punctated with minute blackish purple spots. Staminode light purple,

reticulated green. The infolding lobes of pouch rich vinous purple densely spotted; upper surface vinous purple, lower and front portion light green heavily veined.

This is probably the prettiest of the *Fairieanum* crosses so far raised, and each year it becomes stronger and more beautifully marked, while some complaints have been made about difficulty in its culture owing to its parentage. We grow the plants in shallow pans, also small baskets, in about equal parts of fibrous peat or fern roots and good fresh sphagnum and keep them suspended from the roof at the warmest end of our *cattleya* house about ten inches from the glass and they grow and flower finely.

Our other *Fairieanum* crosses are *C. vexillarium*, *C. Juno*, *C. Niobe*, *C. Edwardi*, *C. Arthurianum*, *C. Arthurianum pulchellum* and a new hybrid we have raised and now flowered for the first time, a *tonso-Fairieanum* cross and we propose to name it *Mrs. F. L. Ames*.

WM. ROBINSON.

North Easton, Mass.

Foreign Notes.

In the rose analysis for 1894, published in the London *Journal of Horticulture*, which gives, in tabulated form, the rank of many roses, calculated from their standing at the various shows, we find, at the head of the hybrids *Mrs. John Laing*, a position it surely deserves. *Mme. Gabriel Luizet* follows it, while *Her Majesty* is seventh. Our old friend the *Jaqu* is twenty-first. *Magna Charta* occupies a

very low place, being sixty-first. Among the teas and Noisettes Catherine Mermet is first, The Bride third; Mme. Hoste is sixteenth. Meteor, which would rank high among American favorites, does not appear at all.

New York.

Cut flower trade during the past week has been generally satisfactory, there being no over-production of anything, excepting violets; of these there have been more than the market would take at the prices asked, viz., \$1.50 to \$1.75 per hundred for the best quality. We have always believed it to be a mistake to encourage such an advance in price of violets, as has been the case early in the season for the past few years in New York. Perhaps it can not be helped, as the demand for a short time is far in excess of the supply, but it certainly has an injurious effect upon the mid-winter demand and sale for violets. There has been stock carried over in retail and wholesale establishments almost every day recently, and these have necessarily been sold at a very low price eventually, as no flower deteriorates so rapidly as the violet. It follows, also, that the growers in the present slack time are not picking their full production, but are holding them for the holidays, and the indications are that of violets at least the supply for Christmas and New Years will be lull up to, if it does not far exceed, the demand.

Roses have not been plentiful, and the indications all point to full holiday figures on all varieties of roses, where the quality is sufficiently good. Many of those that are coming in at present show that softness of texture which tells the story all too plainly of their having been kept stored away as long as they would stand it. Meteors are coming in quite abundantly, and of good quality. This rose will probably be in as good supply as any variety in the market for the holidays. American Beauties sell well, and the best specimens have been bringing \$10 per dozen, with prospects of a considerable rise in a few days.

Of carnations there is a fair crop for present demands, and with prospects of an abundant supply for the holidays. There is considerable said about crops being off just now, and there are many predictions of a short production for the holidays, but unless the weather should be very severe until then it will undoubtedly be found that there will be flowers enough for all. The talk of short cut does not have the effect which it had a few years ago, and the general impression among those in a good position to judge is that there will be plenty of everything to go around. The dealers report plenty of queries about prices from out of town, but shipping orders do not seem to materialize as yet.

It is encouraging to know that the daily papers have considerable to say about the re-introduction of corsage bouquets and hand bouquets in fashionable circles. How much truth there may be in these accounts remains to be seen, but if the correspondents of the metropolitan journals are to be believed hand bouquets are destined to form a large factor in the florists' trade during the fashionable season now approaching. We have been admonished through the columns of all the daily papers that hereafter the acceptable title for a gentleman's floral adornment is to be "coat flower" instead of "boutonniere," this latter word having been disqualified in fashionable circles. Retail florists who are supposed

"to know it all" will please take warning.

Messrs. Eugene Dailedouze and C. H. Allen have just returned from a trip to Boston and are very enthusiastic over the prospects for the convention of the Carnation Society, which is to be held there next February. They predict that the exhibition to be held in connection with this convention will be the finest thing of the kind ever seen in this country, and it is expected that there will be a large attendance from New York City.

There was a big smashup at the New York end of the Brooklyn Bridge one day recently, when a wagon load of flowers and plants intended for Siebrecht & Wadley, and driven by John Meikley, came in contact with an express wagon, the result being an almost total destruction of the contents and the very serious injury to both drivers. Mr. Meikley received a lacerated wound of the scalp and a fracture of the ankle.

Mrs. Henry Siebrecht Jr., whose untimely death was recorded in our last issue, was buried from the residence of her parents at Plainfield, N. J., on Thursday, December 13, the interment being in the family vault at Hillside Cemetery. There were a great many floral tributes beautifully arranged.

Later reports up to noon of Thursday show a tremendous overstock of flowers in market owing in part to bright sunny weather prevailing for past few days. Business is at a standstill and good roses can be bought as low as \$30 per thousand to-day (December 20). The glut of violets is unprecedented; \$5 to \$7.50 per thousand is outside price on them, and all other stock is in a proportionately bad condition.

Boston.

There is a decided scarcity of roses of the better grades, and prices have stiffened up sharply during the past few days. There is a call for everything that comes into the market daily, with the exception possibly of violets, of which there is a full supply.

Of larger roses there are but few. George Wilson is in with Magna Charta in good quality, and the blooms, of which he gets eight or ten dozen a day, sell at sight for \$6 a dozen. For American Beauties Peter Ball is the only resource of any extent, and he is sold out long before you get to him. Many of the retailers have been getting their Beauties from New York, but even that market is short at present on the quality of goods wanted, and there is consequently hunger abroad in the land. Mergets are losing ground fast. Mr. Montgomery is authority for the statement that a short stemmed Bridesmaid will bring a better price in this market than a long stemmed Mermet, and this about states the case. Bridesmaid and Bride of superior quality are worth \$2 per dozen now a week before Christmas and will no doubt bring \$3 at that time.

Carnations are holding on well. Nicholson, Daybreak and Scott bring \$3 per hundred and Buttercup, of which John D. Twombly is the most successful grower, sells for \$5 and \$6, with advance holiday contracts at \$8.

The carnation men were glad to greet Mr. Dailedouze and Mr. Allen as the representatives of the American Carnation Society on their visit to Boston last week, and there is not the least doubt that the meeting of that organization in Boston next February will have the enthusiastic support of the local growers of the divine flower.

One of the growers here of whom we hear but little because most of his goods are disposed of at retail to local customers is W. A. Bock of North Cambridge. Nicholson and Scott are particularly fine at Mr. Bock's, also Helen Keller and Grace Wilder, although the latter at its best cuts a poor figure alongside the Scott. Palms, azaleas and lilies are all looking well here. Mr. Bock's place was visited by the Carnation Society representatives, and they received a most cordial welcome.

The wholesalers are pressed to their utmost to keep up with the demand for holly. Mistletoe is selling rather slowly as usual.

Sprays of Daphne odora with stems two feet in length were exhibited at Horticultural Hall last Saturday by George McWilliam.

Philadelphia.

The wretched weather of the early part of the week interfered considerably with transient trade, but there seemed to be enough demand to use up nearly all the stock at good prices. All roses sell well with the exception of Brides and Perles, which seem to lag a little, probably because every grower has a few and some a good many of these useful varieties. Mme. Testout is becoming quite a favorite with customers and if that weak stem could only be remedied it would move up into the first class. A new rose is making its appearance; it resembles the Meteor and costs the same, but it doesn't sell. Nearly every fifty or one hundred Meteors contains from one to two dozen "bullheads" which appear fairly good in bud but which never develop. Growing and handling cut flowers is a precarious business; the dealer may not sell all his stock but he does not ask the grower to help him bear his loss, and the grower should not attempt to saddle his poor and imperfect stock on the dealer along with his good and charged up at the same price. Every hundred flowers that are charged should be salable; this will apply to violets, carnations, and other similar flowers that are sold by the bunch of so many of a kind.

Swainsona seems to be in demand and sells well; one grower is asking \$10 per hundred sprays. We should imagine it would pay handsomely at these figures. The palm men all report a rushing business. Some say they have never had a better season. Ferns are scarce, that is good ones; there is quite an assortment of varieties, but the hardy house varieties are now small and it takes quite a number to make a fern dish look respectable. The usual instructions on leaving the fernery to be filled are: "Don't put any maidenhair in it. I want hardy plants that I can't kill," and very often it has to be sent for and repaired after a few days' trial at the florist's expense in order to keep peace with his customer.

George Anderson has erected an office and cellar beneath, in which are to be kept his daily cut of flowers; this addition to his storage capacity was completed about two weeks ago, just in time for the holiday season.

The December meeting of the Penna. Horticultural Society was held in the Drawing Room, 12th street below Chestnut. From all points of view it was a great advance on any previous monthly gathering of the society for a very long time.

There was an exhibition of choice new carnations and roses, among them being vases of fine flowers from Mr. J. N. May of Lena Saling, Dean Hole and Maud Dean. From the Cottage Gardens were

Meteor, Bridesmaid, and Mme. Albertini. I. N. Passmore of Oxford sent Yellow Jacket and some fine seedlings. W. R. Shelmire of West Grove sent Eldorado, and Princess Bonnie. Myers & Santman exhibited Della Fox, and Edward Swayne of Kennett a large seedling. Mr. May also brought some fine specimens of his new rose Mrs. J. P. Morgan, some of the blossoms being as large as Beauties, also a vase of Mrs. Whitney. Mr. H. A. Siebrecht staged a vase of his new rose Belle Siebrecht. D. T. Connor of Lansdowne had a vase of Bon Silene by way of comparison. The platform was prettily decorated with the plants and cut flowers used by Messrs. Lonsdale and Craig in illustrating their remarks. An area that had been grown in a dwelling for five years was an interesting exhibit and looked fully as well as its greenhouse neighbor.

Mr. Lonsdale in describing flower and their arrangement during the past fifteen years made some very good points and showed conclusively that modern tastes and methods were a great advance over those of the days of the camellia. Camellias, stevia and the poinsettia, with a few other small flowers used to be the florists' stock in trade, and then such arrangements as this were the fashionable creation, and he held up a pyramid bouquet with a calla in the center and a broad paper on the bottom, composed of camellias, sweet alyssum, abutilons and similar flowers. From these he passed by easy stages up to the favorites of to-day and wound up with a short description of the best known orchids. His remarks were very interesting and much appreciated by the audience.

Mr. Craig took up the subject of plants and exhibited them in the following order, giving a short description of each kind and the treatment it should receive in the house: *Rhaphis flabelliformis* and *R. humilis*, *Phoenix rupicola*, *aspidistra*, *Pandanus utilis*, *Kentia Forsteriana* and *Belmoreana*, *Ficus elastica*, *Arca lutescens*, *aracarias* and *dicksonia*. He recommended amateurs to try *Cypripedium insigne* as an orchid they could grow in the house. His description of the various plants and their methods of culture, was very complete and was listened to with marked attention. The occasion was one that will long be remembered by those present.

The following gentlemen were elected to serve for the ensuing year: President, Clarence H. Clark; vice-presidents, Robert Craig, Dr. J. E. Mears, John Burton, C. H. Miller; treasurer, Thos. Cartledge; secretary, D. D. L. Farson. K.

Westerly, R. I.

A range of thirty-one green houses, covering some 50,000 square feet of ground, most of them of modern construction, with extensive steam-heating apparatus, together with frames, sheds, barns and other outbuildings, and here, there and everywhere in a dozen places at once an alert tireless man full of energy and push, yet always kindly and courteous—this is what one finds who visits S. J. Reuter's establishment at Westerly. And this big concern represents the fruits of just fourteen years of steady application and untiring industry, an achievement in which Mr. Reuter's winsome cheery little helpmeet has borne a full share.

The establishment includes a complete equipment of machinery for turning out all the woodwork of a greenhouse, the cypress lumber being brought here in the rough and all the work of fitting and construction being done on the place.

Two 50 horse power steam boilers and two smaller ones supply heat, the flow pipes being overhead and the returns under the benches with a large condensation tank and steam pump for forcing the water back to the boilers and accelerating circulation. Six of the older houses are to be torn down the coming season and replaced by five new ones built on a modified "short slope to the south system," and still further additions are contemplated in the near future.

Westerly with its 8,000 or 10,000 population does not count for much in the consumption of the product of such a large concern. During the summer much of it goes to Watch Hill, the neighboring seaside resort, where Mrs. Reuter manages a retail store, and for the balance of the year, the stock goes to the Providence and Boston wholesale markets, where it has a reputation for high quality.

Carnations are a leading crop here. Many of the houses are devoted exclusively to Daybreak and Tidal Wave, the latter being confined to the side benches, where its dwarf growing habit makes it most available. Rust is very prevalent this year, all varieties with the exception of Wm. Scott being more or less affected by it. The plants while very fine when taken from the field have not done much until now, when having got their fine roots well developed they are beginning to start ahead and will, Mr. Reuter believes, quickly grow out of the rust. A good many McGowans are grown but Silver Spray is considered the best white. Grace Wilder is unsatisfactory and will be discarded after this season. Edna Craig does much better than last year but with Scott doing so grandly, there is not much room for this variety. Thos. Cartledge has "spot" badly; it is the only variety affected with this trouble. A carnation grown quite largely here which is almost unknown among growers, is Col. Wilder, a scarlet and crimson variegated of robust growth and well formed handsome flower. Buttercup and Baron Rothschild look grand; these have been in the house all summer, having been planted out in spring on the bench where they were to remain. Uncle John and The Stuart have proved very unsatisfactory. Mr. Reuter's method of supporting the carnations is wooden stakes between the plants connected by loops of twine which enclose the plants loosely, the stakes being steadied at the top by stout wires running lengthwise of the house.

In roses one of the leading varieties is Perle, which shows no inclination to produce "bullheads" here. Meteor is also very fine. Testout and Augusta Victoria do poorly. One bench of Testout where hot pipes are directly underneath looks much better than the rest, which leads Mr. Reuter to think that the bottom heat is a necessity with this rose. Watteville is one of his favorite varieties especially for summer. He finds that the burning of the edges of the petals of this rose in summer which growers generally complain of is completely obviated by copious syringing several times a day during hot weather and with this treatment no shading whatever is required.

Springfield, Mass.

Christmas trees will be more extensively handled by Springfield florists this year than ever before.

The Hampden County Horticultural Society held its annual meeting last week and elected the following officers: Presi-

dent, E. P. Chapin; vice-presidents, Clark W. Bryan, P. Hale Smith and George S. Lewis; treasurer, George R. Bond; secretary, W. F. Gale; directors, J. D. Cadle of Westfield; E. H. Howland of Holyoke, Rev. W. T. Hutchins of Indian Orchard, Linwood Morgan of Longmeadow, Dexter Snow of Chicopee, A. M. Spangler of Mittineague and John W. Adams, F. Merritt, Alden, Gurdon Bill, F. R. Belden, J. C. Lutz, H. C. Rowley, Edwin Dickinson, J. H. Hendricks, H. C. Hamilton, J. S. Kirkham, A. Millez, C. R. Miller, George Phelps, L. D. Robinson, E. W. Shattuck, C. L. Simmons, James E. Tower and A. P. Wade of Springfield.

Springfield will have at least three flower shows next year, that number having already been arranged by the Hampden County society. Although the number is several short of this year's exhibitions the society plans to have each of the three sufficiently large to fully make up for the decrease. The premium lists will be made considerably larger this year and by so doing the society expects to attract exhibitors from a distance. The first show will be held in July and will be devoted principally to sweet pea collections. In September there will be a fruit and general flower exhibit and last but not least will come the chrysanthemum show.

A. N. Pierson of Cromwell, Ct., has been invited to give a talk on roses before the Amateur horticultural society some time in January.

F. J. W.

Washington.

Mr. Wm. W. Edgar and bride of Waverly, Mass., who were trying to do Washington in two days, looked in upon us a few days ago.

The cut flower trade picked up wonderfully the past week, notwithstanding the dull weather which lessened the supply of blooms. The demand far exceeded the supply.

The indications at present point to a good holiday trade. Roses are still very scarce and of a very inferior quality. The demand for blooming plants is on the increase and the florists look for a good trade for that class of plants during the holidays. The sale of decorative plants is still very slow. There are a few calls for aracarias, and plants in 5 and 6 inch pots bring \$3 each. Cyclamens in 6-inch pots are bringing \$1 each; the demand for them last week was fairly good. Azaleas in 6 and 7-inch pots, well set with flowers, are selling very well for \$3 each. Ardisias well filled with fruit are bringing a good price and are in demand. The Otaheite orange is quite the rage and is selling well for from \$2 to \$5 each, according to the number of oranges on the plant.

Mr. Edwin A. Seidewitz of Annapolis, Md., paid us a flying visit last Saturday. He says trade is fairly good in Baltimore.

REYNOLDS.

St. Paul, Minn.

Continued dark, cloudy weather has made the cut short and the quality poor, consequently good flowers are scarce and command good prices. This week, however settled weather prevails and the hearts of the growers rejoice as Christmas flowers will be more plentiful while prices will be fairly high. From present appearances there will not be enough to go round, though the exorbitant prices named in the east will not prevail here.

Christmas greens are quite plentiful. Holly is in good supply though the qual-

ity is hardly up to the average of former years. Lycopodium is rather scarce at present. There was an abundance offered early in the season, but just now when everybody wants it it seems to have flown away. The Society of Minnesota Florists met at the West Hotel, Minneapolis, December 8. A goodly number were in attendance and the evening was most profitably spent. The feature of the evening was a paper by Louis Wilde on ventilation. The speaker handled his subject thoroughly and in a scientific manner.

The society will meet in St. Paul next month. These meetings are proving very beneficial to florists in every way and we are pleased to note the increased interest shown in them. It indicates that Minnesota florists are not to be left behind by other states.

Recent visitors: H. A. Johns, of Sioux City; J. M. Kimberlin & Son, of Santa Clara, Cal.; E. V. Hallock and C. P. Braslan.

Clarine Bros. and Chris Hansen are still cutting some good "mums." While the quality is not extra they will come in very handy for the Christmas trade.

FELIX.

Astilbe Japonica.

The following question is referred to me from "E. D. K.": "When should astilbe be potted for Easter sales, and how long does it require to bloom in a temperature of 50° to 60°?"

Astilbe Japonica is the easiest to force of all our herbaceous roots or bulbs, and if good clumps are procured a failure is seldom heard of. When received in November they should be potted, as soon as time will admit, into 5, 6, 7 or 8-inch pots, as the size of the clump requires. Sometimes they are very dry when unpacked and I always throw them into a tub of water for a few minutes. I have seen some florists leave them in the cases till they potted them in January, but I don't believe in this method. After they are potted put them out of doors and cover with a few inches of leaves or litter. They are the hardest of hardy plants; any amount of freezing will do them no harm. After the rush of New Year's is over bring them into the houses. A temperature of 50° will do finely to start them. Last year Easter was very early (March 25). I brought them in about January 7, and had them almost too early. I would say that in a night temperature of 50° they would take 12 weeks to be in flower; in 60° at night about 9 weeks. Their flowering time can be regulated by the temperature you give them, but it is safe to say bring them in very early in the new year.

Any light soil will do for astilbe. It is water they need and in copious quantities. Florists usually crowd them into pots that will just admit the clump and nothing to spare, and as they make great roots filling the pot, you must never let them get dry. The growers for Covent Garden market stand the pots in long shallow tight boxes and keep liquid manure in the boxes all the time for the last month of their growth. There is no doubt this would produce a very superior plant but the price we get for them (50 to 75 cents for a 6-inch pot) would hardly warrant that.

One more item in their culture. Beware of tobacco smoke. They don't need it or any other antipest, and what is more they won't endure it. I have seen the young leaves on more than one lot of astilbe shrivelled up and ruined simply by fumigating. W. SCOTT.

Electric Light in Greenhouses.

For many years I have hunted snails and other pests of the greenhouse by candle light or by coal oil lamp. Have had the drippings of one and the annoyance of the other light to hinder me in hunting out the "night marauders," and although the electric light was in the neighborhood of my greenhouses it never occurred to me that in the matter of artificial light I could improve on the old ways. But in a lucky moment I resolved to put in all the houses incandescent electric lights. The result has been so thoroughly satisfactory in every way that I must mention it. I have had every house fitted up with these lights and I find that any work, either of cutting flowers for an order in an emergency or hunting for these "night marauders," has ceased to have any terrors for myself or the help. A peculiarity of the electric light is that colors do not change and it is easy to separate yellows from whites or pinks, which was hard to do in the old way. The snails and other pests are more easily detected than by any other light. By having the switches or cut-offs properly arranged there need be no more lights in use than are necessary, reducing the expenses down to the minimum. By having, as I have, a light on flexible wire attached to a rod a light can be attached by means of an adjustable socket to any burner so you can look into any dark corner with perfect safety for leaks in the pipes, for a clogged up flue, or use it for any of the many purposes of a portable light with freedom from danger of fire. There are many reasons of practicable use besides the comfort that it causes me to wonder why I did not think of it before. There must be many of your readers to whom the use of electric light is feasible and to them I would recommend with confidence the best thing I have done yet for my own comfort or for the convenience of those in my employ.

Springfield, Ill. CHAS. E. HAV.

Foreign Notes.

Dracana Godseffiana is a new and distinct species from Lagos, West Africa. It belongs to the same class as *D. interrupta* and *camerooniana*, and is of slender habit, leaves often produced three in a whorl, bright green spotted with white.

Scutellaria formosana is a pretty labiate plant from Formosa, recently introduced. It is closely allied to *S. javanica*, and has bright shining green leaves, paler and often stained with purple beneath. The flowers are violet blue, throat white, tinged with green. It is a stove plant, and makes a very pretty specimen.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

SITUATION WANTED—By young man, single; well experienced in roses, carnations, mums. Address JAMES HOOK, care Ed. Woerle, 416 Wrlght St., Milwaukee, Wis.

SITUATION WANTED—In a large commercial establishment as 10-man. First-class references. Accustomed to running a large plant. Address C. WALTON, Clifton, Ky.

SITUATION WANTED—By an experienced chrysanthemum grower who understands his business. Good references given. Address MUM GROWER, care American Florist.

SITUATION WANTED—As foreman. Have the very highest testimonials as a grower of roses and cut flowers; am steady, sober and energetic. Address A. C. care Anchorage Rose Co., Anchorage, Ky.

SITUATION WANTED—By a second man, commercial or private place. Well experienced also in landscape gardening. Wages moderate. Best references. F H II, 155 Harrison Ave., Boston, Mass.

SITUATION WANTED—By a single man, 9 years' experience in growing roses and chrysanthemums; steady and sober; capable of taking charge of commercial or wholesale place. M, care Am. Florist.

SITUATION WANTED—By young man; 9 years' experience in growing roses, carnations, mums and general stock, as foreman or first assistant. Address T. H. care Charles Zeplich, Bay View Station, Milwaukee, Wis.

SITUATION WANTED—Florists, wholesale and retail, have you, or can you recommend me to a vacancy for end of Jan., '95; 12 years horticultural experience; energetic; good address; character unimpeachable; English. Address J. care W. Miller, 584 Columbus Ave., New York.

SITUATION WANTED—By well posted and industrious young florist, to grow roses, carnations, mums, bulb stuff and general stock in retail place. West or southwest preferred. Also for strong, handy assistant with 18 months' experience. For particulars address S. E. care American Florist, Chicago.

WANTED—Second-hand pipe, 1 to 3-inch. VENEN GREENHOUSES, Conneaut, Ohio.

WANTED—A first-class rose grower for large commercial greenhouses in suburb of Chicago. A Chicago man preferred. Q, care Am. Florist.

WANTED—PARTNER—Capable young man with \$1,200 to \$1,500 cash. Good opening. Within 150 miles of Chicago. BUSINESS, care Am. Florist.

WANTED—Cut flower arranger to take charge of a cut flower department. Must be a fairly good maker-up, quick and energetic. Write, giving experience, references and wages wanted, and when can commence work, to SAMUEL L. MARSHALL, Penn. Ave. near Sixth St., Pittsburgh, Pa.

FOR SALE CHEAP—Large second-hand florist's box, value about \$75. VAUGHAN'S SEED STORE, 86 State Street, Chicago.

FOR SALE CHEAP—Florist business, \$5000 a year. In Pueblo, Colorado. Best trade in the city. Apply to PUEBLO FLORAL CO., 325 W. 9th St., Pueblo, Colo.

FOR SALE—Dean combined steam boiler and pump. 4-horse power, 1 1/2 inch suction, 1 1/2-inch discharge pipe; good repair. Cost new \$360; price \$150. Write for particulars. C. E. ALLEN, Brattleboro, Vt.

FOR SALE—A well established florist business, on one of the best streets in Philadelphia; fine large store, and greenhouse attached containing 800 feet of glass, well stocked. Address THEO. MILLER, 228 Columbia Ave., Philadelphia.

FOR SALE—Having recently inherited some property in the Old Country which necessitates my going over there, I offer my entire business for sale, consisting of 25,000 to 30,000 square feet of glass, with large house and store, fully stocked with roses, carnations, violets, palms, and general stock, together with a fine catalogue seed trade, spring bedding, fall bulb and cut flower trade. This is a grand opportunity for a party with capital, or to form a stock company, as there is plenty of scope to develop an immense home trade. For further particulars inquire of THOS. T. HOLTON, 84 South St., Morristown, N. J.

MORTGAGE SALE.

By virtue of Chattel mortgage duly recorded I will offer at public auction on Friday, December 28, 1894, or will receive private bids before that date, on all the plants, building, fixtures and leasehold interests of the property 632 to 638 Stony Island Ave., Chicago, lately occupied by the World's Fair Floral Co., including a large number of blooming chrysanthemums, cactus, palms and orange trees, formerly on exhibition at the World's Fair in Jackson Park. This is the best location in the city, and an opportunity for a florist.

M. E. WILLIAMS, Mortgagee.

NOTICE.

IN pursuance of an order made by Hon. Roger A. Pryor, one of the Justices of the Court of Common Pleas for the City and County of New York, notice is hereby given to all creditors and persons having claims against Theodore Pabst, lately doing business in the City of New York under the name of Theodore Pabst & Co., to present their claims, with the vouchers therefor, duly verified, to the subscriber, the duly appointed assignee of the said Theodore Pabst, for the benefit of his creditors, at his place of transacting business, No. 280 Broadway, in the City of New York, on or before the 18th day of February, 1895.

Dated New York, November 28th, 1894.

EDW. MIEHLING, LORENZ ZELLER, Attorney for Assignee, Assignee, 280 Broadway, N. Y. City.

Booking Orders NOW

— FOR —

WILLIAM SCOTT, Per 100 Per 1000
\$3.00 \$25.00
Strong HEALTHY plants FROM THE SOIL for early SPRING DELIVERY.

MRS. FISHER, For Summer Blooming Ready NOW.

Per 100, \$2.00, Per 1000, \$15.00.

Send for price list of other

NEW AND TESTED CARNATIONS.

FISHER & AIRD,
Norfolk Co. ELLIS, MASS.

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

CHITTY'S NEW PRIZE CARNATIONS For 1895.

ALASKA—The Best and purest white ever offered.

CORSAIR—The scarlet McGowan.

MAGNET—Beautiful magenta rose.

LITTLE GEM—The dwarf J. J. Harrison.

MINNIE COOK—Superb variegated sort.

See full page illustrated advertisement of above in American Florist December 1st and 8th.

FOR DESCRIPTIVE WHOLESALE PRICE LIST

ADDRESS **H. E. CHITTY,**
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WANTED!

A good, free blooming, healthy, vigorous **Yellow Carnation**. Flowers must be perfect, of fair size and borne on long, stiff stems. There must be plenty of pips, and these easily rooted.

AND HERE IT IS—Any one of the following will fill the bill:

ELDORADO—Pure yellow ground edged with light pink. Picotee marking.

KITTY CLOVER—Light yellow striped red with a little white.

EULALIE—Yellow ground penciled with pink.

We also offer this year

PRINCESS BONNIE—A beautiful pink variegated flower of large size; and
DAISY BELI—A white, variegated similar to Chester Pride, but very much larger flower.

Send for general price list of both Carnations and Coleus.

W. R. SHELMIRE,
AVONDALE, Chester Co., PA.

THE COTTAGE GARDENS, Queens, Long Island, N. Y. WHOLESALE CARNATIONS.

New Carnations our Specialty

**FRED. DORNER & SON,
FLORISTS,**

LA FAYETTE, : : INDIANA.

CARNATIONS ROOTED CUTTINGS now ready, of desirable kinds for EARLY SUMMER BLOOMING.

Seedlings, Novelties and Standard sorts in season.

C. J. PENNOCK,
The Pines. KENNETT SQUARE, Chester Co., PA.

ROSES. ROSES.

B. V. Hallock says: "Your field-grown Roses interested me very much. They are without doubt the finest grown roses in the world." "The finest and cheapest I ever bought."—*Wm. Falconer.*

HYBRID PERPETUAL, MOSS AND CLIMBING.

In Splendid Assortment of leading varieties. Also Extra fine stock of following will be offered at very low rates while surplus lasts:

TREE ROSES—Holland grown, well rooted, good, heavy tops, in fine assortment.

AMPELOPSIS VEITCHII—Extra, 3 to 4 feet.

ARISTOLOCHIA SIPHO—Strong well branched plants with heavy roots.

VIBURNUM PLICATUM (Japan Snowball)—2 feet.

CLEMATIS—Strong, 3 year, large flowered.

TUBEROSES—Pearl and Double Italian, fine bulbs.

GALADIVUM ESCULENTUM—9 to 10, 7 to 9 and 5 to 7 inch.

Low prices on application. State quantities wanted.

OUR USUAL COMPLETE STOCK OF HARDY AND TENDER PLANTS, POT ROSES, SHRUBS, VINES, BULBS, FRUIT AND ORNAMENTAL TREES, GRAPE VINES, SMALL FRUITS, SEEDS, ETC.

41st YEAR. 1000 ACRES. 29 GREENHOUSES.

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CATALOGUES AND
PRICE LIST FREE.

PAINESVILLE, Lake Co., OHIO.

CARNATIONS

Any way you want them, direct from the sand or as transplanted plants.

Varieties that **PAY** to grow, and Cuttings or Plants that **WILL** grow.

Better write to me, I'll do my share toward giving you good value for your money.

ALBERT M. HERR,
L. B. 496. LANCASTER, PA.

OPHELIA.

A large pink CARNATION, a little darker than Scott. Winner of Craig cup for best seedling at Philadelphia, in spring of '93; will be ready for distribution Feb. 1st, at \$10.00 per 100; \$80.00 per 1000. —Those wishing to list it please write.

MOST LEADING VARIETIES READY AT SAME TIME.

MRS. FISHER.

(For summer blooming), now ready, from soil, at \$12.50 per 1000.

LADY CAMPBELL VIOLET, Rooted Runners ready, at \$2.00 per 100; \$15.00 per 1000.

EDW. SWAYNE, Kennett Square, Pa.

50,000 Carnations. ROOTED CUTTINGS.

Ready January 1st. Positively no Rust.

Send for Price List.

Wm. Swayne,

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CARNATIONS.

Rooted Cuttings. Young Plants. Field-Grown Plants in season. Send for prices.

Geo. Hancock & Son, Grand Haven, Mich.

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LOCK THE DOOR BEFORE
THE HORSE IS STOLEN
DO IT NOW.

JOHN G. ESLER, Sec'y, F. H. A., Saddle River, N. J.

Superior forcing stock. Strong field-grown. Budded low on Manetti. Extra heavy tops and roots. Better than imported; can depend on their reaching you in first-class condition. Our exhibit at Atlantic City received Honorable mention.

Some Fine New Roses.

NEW CLIMBING POLYANTHA, CRIMSON RAMBLER, the best Novelty of the season. \$25.00 per 100; \$3.50 per 12.

NEW FORCING TEA, a rival of Bridesmaid, **MAMAN COCHET**, excellent for forcing as well as bedding. \$10.00 per 100; \$1.50 per 12.

50,000 YOUNG ROSES, strong 2-inch pot plants now ready. \$20.00 per 1000; \$2.50 per 100; our selection. See AM. FLORIST Dec. 1 for price of large Roses and from open ground.

VIOLETS *Marie Louise* { 2-inch pot plants well in
Wanley White } bud, \$3.00 per 100.

—For anything in the Florists line,

Address **NANZ & NEUNER,**
LOUISVILLE, KY.

ROSES.

Clean, healthy stock.

MERMETS, BRIDES, MME. WATTEVILLE, Strong plants, from 3-inch pots, \$5 per 100.

BRIDESMAIDS, METEORS,

Strong plants, 3-inch pots, \$6 per 100.

WOOD BROTHERS, Fishkill, N. Y.

FOSTITE, A PERFECT REMEDY for Mildew on Roses and Carnation Rust.

Joosten's Magazine Bellows, the best out.

Fostite, 25 lbs \$2.00. Bellows, \$3.50. Cash with order. Sold by all dealers and by

C. H. JOOSTEN, 3 Coenties Slip, New York.

Hybrid Perpetual Roses,

Worked low on the Manetti Stock, offer the best results to the florist, blooming freely and giving plenty of cuttings for propagating quickly. Fine plants for sale by the 100 or 1000, at low rates.

Price Lists to applicants. Address

WILLIAM H. SPOONER,
JAMAICA PLAIN, (Boston), MASS.

WESTERN FLORISTS.

Carnation Cuttings.

Rooted Cuttings now ready, and orders booked for immediate or later delivery. Stock clean and strong. Daybreak, Uncle John, The Stuart, McGowan, Dorner and other leaders. Write for prices.

Cut *Smilax* for Xmas, 15c. a string.

CHAPIN BROS., 16th & D Sts., Lincoln, Neb.
Mention American Florist.

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Inch, \$1.40; Column, \$14.00.
Cash with Order.

No Special Position Guaranteed.

Discounts, 6 times, 5 per cent; 13 times, 10 per cent;
26 times, 20 per cent; 52 times, 30 per cent.
No reduction made for large space.The Advertising Department of the AMERICAN
FLORIST is for Florists, Seedsmen, and dealers in
wares pertaining to those lines ONLY. Please to
remember it.

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

Advertisements must reach us by Wednesday to se-
cure insertion in the issue for the following Saturday.

Address THE AMERICAN FLORIST CO., Chicago.

New York.

Ferdinand B. Wenderoth, for many years with Ed. Jansen, has mysteriously disappeared. He left his home in Brooklyn last Monday morning for his place of business as usual, and an acquaintance accompanied him to the corner of 6th avenue and 23d street, this city, and from that point every trace is missing. All his private affairs, as well as business matters, being apparently in good order no cause for the disappearance can be advanced.

WE ARE advised by Mr. Rieman that the correct spelling of the name of the chrysanthemum named for him is Henry W. Rieman, and not Reimen, as we had it in a recent issue. Also that the variety originated with him and was sold by him to Messrs. Hill & Co.

BULBS FOR EASTER FLOWERS.—"A" will find answers to his questions in Mr. Scott's seasonal hints in our issue of March 1, 1894. The same matters are touched upon in our issues of January 25, 1894, and September 21, 1893.

OBITUARY.

Pierre-Auguste Oger, the well known rosarian, died at Caen, France, October 5, in the 79th year of his age. M. Oger originated a number of varieties, the best known being Mme. Pierre Oger (Bourbon) sent out in 1878. He was actively engaged in horticulture up to his death, and was greatly esteemed by his associates. He leaves a widow and family.

DAN'L B. LONG,
WHOLESALE CUT FLOWERS,
495 Washington St., BUFFALO, N. Y.

SHIPPING ORDERS CAREFULLY ATTENDED TO.

OTHER SPECIALTIES:

Florists' Supplies, Wire Designs, Bulbs,
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Catalogues, Lists, Terms, etc., on application.

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Cut Flowers and Florists' Supplies
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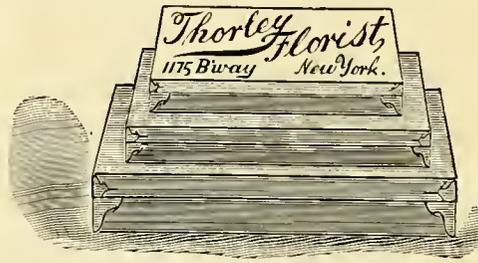
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(Successor to ELLISON & KUEHN),
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FLORIST,
1122 PINE STREET,
St. Louis, Mo.
A complete line of Wire Designs.
Mention American Florist.

WANTED.

I want growers of good CUT FLOWERS to know that I sell Flowers on Commission; that I charge 15 per cent. Commission on sales; that I furnish growers a statement each week of amount sold, and enclose check for the same.

CONSIGNMENTS SOLICITED.

T. J. CORBREY,
COMMISSION FLORIST,
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The boxes as they appear when set up for use.

We make them in a sufficient number of sizes, including for violets, to meet all necessary requirements.

THE NATIONAL FOLDING BOX & PAPER CO.,
NEW YORK SALESROOM: 132 & 134 Franklin Street. 315--325 Congress Ave., NEW HAVEN, CONN.

FOR DECORATING, NOTHING CAN EQUAL**ASPARAGUS PLUMOSUS NANUS.****CUT STRINGS 8 TO 12 FEET LONG, 50 CTS.**

Shipped in large or small quantities to any part of the country. Orders by mail, telegraph or telephone.

W. H. ELLIOTT, Brighton, Mass.**Hardy Cut Ferns,****BOUQUET GREEN,**

Laurel and Green Festooning, Wreaths, Etc.

SPHAGNUM MOSS IN ANY QUANTITY.

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Made from Water-proofed, Double Manila lined, Strawboard. Shipped flat, packed 100 in a crate.

CHICAGO FOLDING BOX CO.,Jackson & Clinton Sts., CHICAGO.
TELEPHONE MAIN 4718.

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WHOLESALE CUT FLOWERS.
FLORISTS' SUPPLIES.

WIRE WORK, OUR OWN MAKE.
GIVE US A TRIAL.

VIOLET PLANTS, fine, clean stock.
468 Milwaukee Street, MILWAUKEE, WIS.
Phone 1571. P. O. Box 87.
OPEN TILL 8 P. M. SUNDAY TILL NOON.

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

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DEALERS IN**CUT FLOWERS.**Roses, Carnations, Chrysanthemums,
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REAR OF 42 S. 16th STREET,
Philadelphia, Pa.**Cycas Leaves.** FRESH CUT each 75c.

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CUT SMILAX.15 Cents per String.
SMILAX, from seed flats, 20 cts. per 100; \$1.50 per 1000. 3/4 Million Seedlings.

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 HEADQUARTERS FOR AMERICAN BEAUTIES.

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Our Roses best them all, in quality. Headquarters for fine American Beauties.

NILES CENTER FLORAL CO.
 WHOLESALE GROWERS OF
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SHIPPING ORDERS will receive our special attention. Send us a trial order.

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 Consignments solicited. CHICAGO.

ROGERS PARK FLORAL CO.,
 Wholesale Growers of
CUT FLOWERS,
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We are prepared to fill your orders with first-class flowers. Give us a trial order.

WELCH BROS.,
Wholesale Florists,
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 Near Tremont St., BOSTON, MASS.

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PLENTY OF... **Chrysanthemums and Roses,**
CARNATIONS

In all the leading varieties and the **BEST VIOLETS** in New York City may be obtained of
Michael A. Hart,
WHOLESALE COMMISSION FLORIST,
 113 W. 30th St., NEW YORK.
 Telephone Call 1307 38th St.

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Wholesale Markets.

Cut Flowers

NEW YORK, Dec. 18.

Roses, Bon Silene, Niphotos	2.00@5.00
" Perle	2.00@6.00
" Mermet, Hoste	4.00@8.00
" Bride, Cusin	4.00@10.00
" Watteville, Bridesmaid	4.00@10.00
" La France	4.00@15.00
" Teaton	10.0@15.00
" Mrs. Whitney, Kaiserin	10.00@15.00
" Meteor	6.00@15.00
" Beauty	50.00@75.00
" seconda	5.00@25.00
" Hybrids	25.00@50.00
Carnations	1.00@2.00
" fancy	2.00@3.50
" fanny	.50@1.50
Valley	2.00@4.00
Hyacintha	2.00@2.50
Harrisil lilles	8.00@10.00
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Cypripediums	10.00@25.00
Poinsettias	10.00@15.00
Sullax	12.00@16.00
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BOSTON, Dec. 18.

Roses, Mermeta, Brides	6.00@12.00
" Niphos, Perle	4.00@8.00
" Bon Silene, Gontler	3.00@5.00
" Bridesmaid, Testout	8.00@15.00
" Meteor	8.00@12.00
" Beauty	50.00@75.00
" Magna Charta	50.00
Carnations	1.00@2.00
" fancy	2.00@5.00
Valley	3.00@4.00
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Violeta	.75@1.50
Adiantum	1.00
Sullax	10.00@12.50
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PHILADELPHIA, Dec. 18.

Roses, small	4.00@6.00
" large teas	6.00@8.00
" Beautica	35.00@50.00
" Brunners	25.00@40.00
Carnations	2.00@4.00
Sullax	12.00@15.00
Asparagus	35.00@50.00
Violeta, double	1.50@2.00
" single, per 100 bunches	\$1@\$.5
Valley	4.00
Cattleyaa	40.00@50.00
Cypripediums	15.00@20.00
Adiantum	1.00@1.25
Sullax	15.00@20.00

CHICAGO, Dec. 20.

ADVANCE HOLIDAY PRICES.

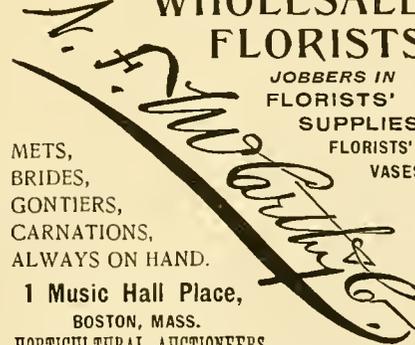
Rosea, Beauty, selected	60.00@100.00
" Testout, Bridesmaids	15.00@18.00
" Meteor, La France, Albany	12.00@16.00
" Bride, Mermets	12.00@16.00
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The Seed Trade.

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VISITED CHICAGO: S. F. Willard, Guy Posson, B. L. Grant, James Meggat.

A PHILADELPHIA house offers exceedingly low rates on yellow onion sets December 15.

F. BARTELDES & Co. of Lawrence, Kas., seem to be first in the field with 1895 retail seed catalogue. Red Wethersfield onion \$2 a pound, Globe Danvers \$1.75.

Catalogues Received.

Robert Buist, Philadelphia, garden seeds; Beney, Lamaud & Musset, Lyon, France, plant novelties; The Cottage Gardens, Queens, N. Y., carnations, cannas, etc.; W. Atlee Burpee & Co., Philadelphia, preliminary trade list seeds; Louis Paillet, Paris, France, nursery stock; J. M. Thorburn & Co., New York, seeds; Mrs. Anna B. Nickels, Laredo, Texas, cactus; Hugh Low & Co., London, wholesale tradelist plants and orchid trade list.

Chicago.

If the grower don't play in luck this year it isn't the weather clerk's fault. If the weather were made to order just for the occasion it couldn't well be improved upon. Prices have soared away up. All the week, commencing Monday, stock advanced a notch day by day. The commission and wholesale dealers used every effort to draw out a supply sufficient for the most urgent demand, but all in vain; 8 to 10 for roses and 3 for common grade carnations seems no temptation to bring out the stock; contrary to all expectations the prevailing high prices have been no inducement to the growers to part with their stock, in fact it seems to have had just the opposite effect. What the result will be no one can tell. This last week of glorious weather has made a wonderful change in the prospect of supply, and unless we are very much mistaken there will be plenty of carnations and violets at least. The outlook for roses though is not so good. The cut of fresh roses can not possibly be large to judge from appearance, but to what an extent "pickled" stock will influence the market time only will tell. The wholesale dealers had an uphill job to supply their shipping demand. They were unable to fill one-half of the orders, and as a consequence many a country dealer had to be disappointed.

In retail circles the boys report an active demand for holly, green, etc., but few orders for flowers are booked ahead. The price of roses, based on present quotations, is so much higher than last Christmas that many flower buyers seem to be inclined to forego the luxury of flowers. At any rate the majority are holding off the placing of orders until the last moment. The boys are naturally on the bear side of the market. Very few heavy orders are being placed, the majority being rather inclined to take their chances.

Mr. E. H. Libby, formerly of the Rural Publishing Co., New York, is now connected with the *Irrigation Age*, of this city.

Buffalo.

Contrary to reports from some eastern cities Buffalo weather has been phenomenally fine. For the past month we have had mild weather with many days of unclouded skies; this is wonderful for our town and may it continue is the prayer of all connected with horticulture. It may not suit dealers in furs or the livery stable business, but it agrees with our health and temper.

From present indications flowers are going to be away up in price. Roses are already quoted at "prohibitory" prices. It can't be helped; all the talk in the world won't prevent it. There are ten people after one rose, and the highest bidder will get it, while in October there were ten roses for one buyer and the buyer has his choice and then gets the best at his own price. Holly and green are as popular as ever, and at this writing there will be none too much in town. There is as last year a good demand for plants in flower. This part of the trade has been steadily growing and is now certainly an important feature of the business. Poinsettia, azaleas, cyclamens, begonias, Liliun Harrisii, pans of lily of the valley, Roman hyacinths, paper white, as well as many small palms are selling well. Chrysanthemums are, I believe, entirely gone out of this country and no one regrets it very badly. They begin to look like some old broken down tramp to whom you had given the cold shoulder a few weeks ago and who has turned up again.

We were favored this afternoon with a pleasant call from Mr. Henry Wise of East Aurora. Another visitor in town this week was Mr. Elder of the Lord & Burnham Co., and Mr. D. Scott of Fredonia, and now as it is a busy time I must conclude and wish everybody in the business, especially those who have had the courage to read the effusions of W. S., a happy and prosperous Christmas.

W. S.

Cincinnati.

Business has been very dull here the past summer, but the outlook for the winter season is somewhat more encouraging. Flowers are getting more plentiful and the quality is good, especially in roses and carnations. The weather has been splendid and the plants are doing finely.

Mr. Jackson, one of our best violet growers, has had poor success this fall with violets, having lost nearly three houses from the disease. This seems to be the complaint of all the florists.

A great deal of new glass has been added this past summer, and the supply seems to have increased at a more rapid rate than the demand.

Several new stores have opened this fall. Mr. Frank Huntsman opened a neat little store on Race and 6th, and is doing a good business. Mr. Ebrgott, formerly with the Cincinnati Floral Co., opened up in Hardesty's old stand on 4th street, and has had a good deal of work on hand.

Chrysanthemums are about gone, and those who have any left can now get a good price for them. The demand for violets for corsage wear this season amounts to almost a craze, and they are very scarce, selling at \$2 per 100. Harrisii and calla lilies will be in fair supply for Xmas.

Mr. John Fries has taken his son into partnership. They have just completed two new 100-foot houses, and have them filled mostly with Daybreak carnations.

Stock is scarce, and it is suspected that the growers are holding it back for

Christmas. Carnations are bringing from 3 to 4, Perles 4 to 6, Brides 6 to 8. Beauties are very scarce and sell readily at \$5 to \$8 a dozen wholesale. P.

St. Louis.

The regular meeting of the Florists' Club was held on the 13th with a fair attendance. The final report of the exhibition committee was made and accepted. The prizes are being paid in line with their recommendations. The subject of a show next season was broached and called forth considerable discussion. There is a party in town who wishes to manage the show, guaranteeing the prizes and taking whatever profits may develop. His business is managing exhibitions and entertainments, so that he thinks there is something in a show properly conducted. A committee consisting of Mr. A. Waldbart, John Young and R. F. Tesson have been appointed to wait upon him and report to the club at the next meeting what terms and arrangements can be made with him. The prospects are that if anything in reason will suit him the show will be held.

Trade still continues good, stock being scarce. Christmas prices so far quoted are high, but the prevailing shortness in the supply renders them imperative.

R. F. T.

Pittsfield, Mass.

A meeting of the Berkshire County Gardeners' and Florists' Club was held December 13. The annual election of officers took place, and the following were elected: President, Col. W. Cutting; first vice-president, A. P. Meredith; second vice-president, Edward Dolby; secretary, R. C. Pye; treasurer, Frank Howard; auditor, Robert Johnson; guard, J. G. MacArthur; executive committee—Col. W. Cutting, E. Bennet, R. Johnson, E. Warden, M. Finaghty, T. T. Connors, N. L. Cobhan.

R. C. P.

Germinating Clematis Seeds.

In answer to "Constant Reader," page 427, clematis seeds germinate very slowly. If sown now in boxes and put under the bench of a greenhouse till spring they will come up quite thickly. Or if you have no greenhouses put the boxes outside and cover up with a little litter. Freezing will do no harm—rather do good.

A. GILCHRIST.

Toronto Junction, Ont.

Greenhouse Building.

WESTERLY, R. I.—W. B. Potter, commercial house, 50 feet.

CHESTER, PA.—H. & F. Show, commercial house, 18x50.

WOODHAVEN, N. Y.—D. H. Lancy, rose house, 100x20.

"HARD TIMES" PALM COLLECTIONS. The hard times are going and so are the palms, but we can still supply 17, 3 and 4-in. palms for \$1 and \$4 for \$3 cash (regular price \$8). These comprise the best varieties, including Lantanias, Kentias. JUST WHAT THE RETAILER WANTS.

WILLIAMS & SONS CO., Batavia, Ill.

CHRISTMAS TREES. 5000 Evergreen Trees, Austrian Pines, Norway Spruce, American and 34 for \$3 cash (regular price \$8). These comprise the best varieties, including Lantanias, Kentias. JUST WHAT THE RETAILER WANTS. For prices address Jas. A. Taylor, Nurseryman, Kalamazoo, Mich.

When you write to any of the advertisers in this paper please say that you saw the advertisement in the *American Florist*.

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CYCAS REVOLUTA.

Orders booked now for fresh imported stems, fronds and roots cut off; best long-leaved variety. Delivery Feb. 1st to April. Cultivated Cycas always on hand, rooted and well established

Lil. Auratum, Spec. Rubrum and Album, Etc.
Iris Kämpferi, in 100 choice varieties.
Japanese Maples, in best varieties.
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Araucaria excelsa, choice cultivated stock at lowest prices.

For general Japanese stock apply to

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CHOICE SEEDS.

PETUNIA GRAND. FIM. FL. PL.

The largest and finest strain of double fringed and mottled Petunias to be had. All who see these Petunias say they are finest they ever saw. Extra.

VERBENA GRANDIFLORA.

This improved strain of Mammoth Verbenas gives perfect satisfaction to my many customers, and is justly claimed the finest in cultivation; flowers an inch in diameter, in extra large trusses, of finest color.

CYCLAMEN GIGANTEUM.

A magnificent collection of the finest giant flowering varieties; largest flowers and best colors.

Each, per trade pkt. 25c; 3 pkts. 60c; 6 pkts. \$1.00.
I will here thank my florist friends for the many letters of commendation received during the past year.

JOHN F. RUPP, Shiremanstown, Pa.

Bouquet Greens, Mistletoe, LILY OF THE VALLEY (BEST GERMAN PIPS)

Choice Flower Seeds for Florists. Write for prices.

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PALMS CHRYSANTHEMUMS CARNATIONS ORCHIDS & ROSES

Prices on application.

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WYNDMOOR, near Chestnut Hill, PHILA., PA.

SOMETHING of INTEREST TO

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to be had for the asking. Write now for it.

Address **JOHNSON & STOKES, Seedsmen,**
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THE BROWN BAG-FILLING MACHINE CO., MANUFACTURERS OF AUTOMATIC MACHINES FOR PUTTING UP SEEDS, FITCHBURG, MASS.

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Beautiful and Hardy

Lilies that Ought to be in Every Garden.

on these goods soon. G. C. WATSON, Phila.

Imported by me direct from the Japanese Bulb Farms, and offer at import prices carefully repacked on arrival, and every bulb guaranteed sound. Four varieties: ALBUM, RUBRUM, ROSEUM, ACUTUM. They come via Suez, and are due here about end of December. "Don't do anything" until you've seen my price. Write today. A sharp advance is anticipated. Seeds, Bulbs, Plants (Wholesale only), 1025 Arch St.

When ready to plant Verbena seeds
The Progressive type will meet your needs;
The kind that spans the silver half
And makes progressive Florists laugh.

New crop now ready and better than ever. Only the very best XXX seed offered. 1/8 oz. 60 cts.; 1/4 oz. \$1.00; trial packet 10 cts. In stamps.

Double Petunia Seed, hand hybridized, Dreer's strain, 500 seeds 50 cts.; 1000 seeds \$1.00.

Single Fringed Petunia Seeds, Dreer's strain and California Giants blended, saved from the most magnificent, showy varieties in cultivation, 500 seeds 30 cts.; 1000 seeds 50 cts.

Mammoth Double White Scabiosa Snowball, per trade packet 1/8 oz. 20 cts.; 1/4 oz. 35 cts.; oz. 70 cts.

A fine strain of Eckford's Sweet Peas, per oz. 10 cts.; per lb. 50 cts. All postpaid.
Snow Crest Daisies, small plants, 2-inch, \$4 per 100.

Will have some splendid Novelties in our New Seedling Cannas, Verbenas and Petunias, also a general list of small plants and rooted cuttings later.

Address, cash with order please,
J. C. GIBSON, WOODBURY, N. J.

BULBS.

Hulsebosch Bros.

ENGLEWOOD, N. J.

SELL ALL KINDS CHEAP.

WE SELL SEEDS

Florists' Flower Seeds and Sweet Peas a specialty. Highest quality. Special prices

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FROM AUSTRALIA. — Araucarias, Palm Seeds, Etc.

FROM CALIFORNIA. — Bulbs, Seeds, Trees, Etc.

Orders booked up to Dec. 1 for Cycas Revoluta Stems. Send for our new and interesting Catalogue '94-'95.

H. H. BERGER & CO.,
(Established 1878.) SAN FRANCISCO, CAL.
Oldest and most reliable import house.

READY NOW.

Black Calla Bulbs

Extra size, \$10.00 per 100.

CASH WITH ORDER.

CHAS. SCHWAKE,

404 E. 34th Street, NEW YORK.

Clematis Jackmanni.

One year, nice dormant stock, for potting up for Spring sales, \$2.00 per dozen; \$12.00 per 100. All home grown.

. . . F. A. BALLER, Bloomington, Ill.

Worcester, Mass.

A new factor has come into the florist business in this quiet little town that is causing more or less uneasiness, that is the addition of a plant and flower department by a large dry goods concern that handles nearly everything. This firm has had periodical fits of selling plants and flowers, generally of inferior quality, at so-called bargain prices and about the first of December they announced with a grand flourish that plants and cut flowers had been added to their stock in trade and advertised ten thousand Mermets, Brides, Bridesmaid, Cusin, Meteors, etc., at 48 cents a dozen, which was really a high price for the stuff, the next day they were cut down to 39 cents, and later three hundred small palms were advertised at one-half regular prices but in reality were sold at from two to eight cents lower than usual prices. The first of December Chas. D. Thayer gave up his Main street store and announced that his cut flower business had been removed to this dry goods concern, but he was still in the field for funeral work and decorations. Of course all this has created quite a little tempest in a tea-pot among the small retailers as they seem to forget that no one can fool all the people all the time, and that while some trade will undoubtedly be attracted by booming advertisements while the thing is new, fresh flowers and fair prices will win after the novelty of buying roses for 39 cents per dozen has been worn off by the faded appearance of the stuff the next day.

A. H. L.

Toronto.

Since writing last week a little improvement in business generally may be noticed. Stores are all decorated up for Christmas and the public is beginning to show the preparatory symptoms of the Christmas fever.

On Tuesday (18th) the Gardeners' and Florists' Association will choose its officers for the coming year and the excitement appears to be running high; there are rumors that great changes will be made. We shall see. I am not going to give away what any little birds may have told me this year.

There is likely to be any amount of cut flowers for the Christmas trade with perhaps the exception of violets which are selling now at \$2; \$2 to \$3 is the present price of carnations with a plentiful supply; roses are still "way down" but with signs of improvement. Chrysanthemums will be still with us at Christmas and in considerable quantity too.

E.

Getting Rid of Moles.

In reference to the inquiry about moles would say that three years ago our garden was overrun by them. We finally tried a remedy mentioned in a English gardening book, which was to plant castor oil beans all over the garden. It was stated that when the moles came in contact with these they would leave the place. We tried it and have not seen any sign of moles since. We start the beans in a box in the greenhouse and plant out in spring. We tried oil and also tar, but that did not drive them away.

Akron, O. MRS. ROBT. LINNEY.

CARNATION PLANTS, large, healthy, full of bud, mixed varieties of leading sorts, \$5.00 per 100.
 PELARGONIUMS, 2 1/4-inch, \$3.00 per 100.
 3-inch, \$5.00 per 100.

S. WHITTON & SONS, Wholesale Florists, 9 and 11 Roberts Street, UTICA, N. Y.

CHRYSANTHEMUM STOCK PLANTS.

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The Jennings Strain of Large Flowering and Fancy Pansies, field-grown, nice stocky little plants—cold frame size.

THE FINEST STRAIN is what every florist wants. I think you will find mine as good as the best. Stock carried in cold frames, and orders filled any time. 100 by mail 60 cts; 1000 by express \$5 00; 5000 \$20. Finest mixed seed of above Pansies, pkt., 2500 seeds, \$1; per oz. \$6. Yellow same price. Cash with order.

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Pansy Plants.

EXTRA FINE STRAIN.

75 cents per hundred; \$5.00 per thousand.

ESSEX HEIGHTS FLORAL CO., BELLEVILLE, N. J.

PALMS.

150,000 of all the leading varieties.

FERNS.

50,000 of leading varieties.

Address GEORGE WITTBOLD, 1708 N. Halsted St., CHICAGO. Mention American Florist.

Cheap to Close Out.

BEGONIAS, fine assortment, 2 1/2-inch pots.....	Per 100 \$ 1.50
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AZALEAS fine imported.....	33c to 90c each
PALMS, fine young plants, assorted, \$5.00 per 100, from 3-inch pots.....	
POTS 2 1/2 to 4 inch, say what size you want and I'll make a low price. Everything f. o. b. here, and spot cash.	

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Choice Florist Seeds.

Pansy, Calceolaria, Primula, Cineraria, choicest strains, at 25 and 50 cts. per trade packet. Special quotation on BULBS.

W. A. MANDA, The Universal Horticultural Establishment, SOUTH ORANGE, N. J. Mention American Florist.

VERBENAS Transplanted Cuttings \$2.50 \$20.00 \$8 per 1000; \$1 per 100. Rooted, \$3 per 1000. Plants, \$2 per 100. All clean and true to color. Satisfaction guaranteed, and safe arrival. W. B. WOODRUFF, Florist, Westfield, N. J.

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Palms, ORCHIDS, Roses,

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FRESH DRACAENA CANES NOW READY.

ORCHIDS OUR SPECIALTY.

The Best and Largest Stock in the World. New & Rare Foliage & Flowering Plants. A grand selection for Stove, Greenhouse and Conservatory.

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Grevillea Robusta.

Strong 2 1/2-inch pots, 50c. per dozen; \$3.00 per hundred.

NATHAN SMITH & SON, ADRIAN, MICH.

CUT SMILAX.

15 Cents per String.

Elegant Stock Now Ready.

THE NATIONAL PLANT CO., Dayton, Ohio.

E. G. HILL & CO.,

Wholesale Florists

RICHMOND, INDIANA.

A. Farleyense Fern

Per Doz, Per 100.
 3-inch.....\$2.50 \$20.00
 4-inch.....5.00 40.00

Largest stock in the west. Satisfaction guaranteed.

BAKER BROS., P. O. Box 72. KANSAS CITY, MO.

Some New and Rare Plants

CANNA KOENIGIN CHARLOTTE—Most striking Novelty; strong established 4-inch pot plants, \$10 per 12; \$1.00 each.
CAREX JAPONICA MARGINATA—Neatest of all ornamental grasses for ferneries or pot culture, \$3.50 per 12; 35c. each.
CYPERUS ALTERNIFOLIUS GRACILIS—The very thing for fish globes, fern cases, etc. Don't grow over 18 inches; neat and compact. \$3.50 per 12; 35c. each.
ERYTHRINA CORALLODENDRON—Free and easy grower and blossomer, of most gorgeous color; very ornamental bedding variety. \$3.00 per 12; 30c. each.
PELLIONIA PUNCTATA—A fine creeper for baskets, jardinières, etc. \$1.50 per 12; 15c. each.
LYCOPODIUM CAESIUM ARBOREUM—Most ornamental stove house moss. 4-inch pot plants, \$2.00 per 12; 20c. each.
DRACAENA DRACO—The true Dragon Tree. From 3-inch pots, \$1 per 12; \$6 per 100; 15c. each.
AGANTHUS UMBELLATUS SUPERBUS—The large flowering blue African lily, from 3-inch pots, strong, \$6.00 per 100; \$1.00 per 12.
ASPARAGUS SPRENGERII—\$20.00 per 100; \$3.00 per 12. Dark green, glossy foliage, very robust, and quite distinct from all other sorts.
 Address **NANZ & NEUNER, Louisville, Ky.**

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CHRYSANTHEMUMS**

All the best new market sorts, 60c per doz.; \$4 per 100. Best market sorts of previous years, 35c per doz.; \$2 per 100. Ready for delivery Feb. 1st. Also
CYCLAMEN persicum giganteum, 3 1/2 in., \$6.00 per 100.
GENSTIAS, 5-inch pots, fine plants, \$12 to \$15 per 100.
SMILAX, 2 1/2-inch pots, \$2.00 per 100; \$15.00 per 1000.
 Address **J. G. BURROW, Fishkill, N. Y.**

CHRYSANTHEMUMS.

MRS. F. BERGMAN and MRS. E. G. HILL, \$3 per doz. **YELLOW QUEEN, H. L. SUNDERBRUCH, MINERVA, EUGENE DAILLEDOUZE, AUTUMN EVE, CHALLENGE, MAUD DEAN, CLINTON CHALFANT, ERMINILDA, MUTUAL FRIEND**, 30 cts. each; \$5 per doz. Also all the other desirable varieties.
 Write for special prices on large lots. Cash with order
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CHRYSANTHEMUMS.

MRS. E. G. HILL, best early, large flowering, pink, stock and 4-inch pot plants, \$2 doz.; \$15.00 per 100
 2 1/2-inch pot plants 10.00 per 100
CHAS. DAVIS, golden sport from Vivand-Morel, suffused apricot, extra, stock and 4-inch pot plants, \$2 doz.; 15.00 per 100
 2 1/2-inch plants, 10.00 per 100
C. CHALFANT, golden sport from J. W. White. Stock and 4-inch pot plants \$1.50 doz. 10.00 per 100
 2 1/2-inch plants, 7.50 per 100
WM. TRICKER & CO., Clifton, N. J.

Stock Plants of "Mums."

	Each	Dozen
IVORY	15c.	\$1.50
KIOTO	10c.	1.00
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Orders booked now for rooted cuttings of Carnations.

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 WHITFORD STATION PENNA. R. R.
 WEST WHITELAND P. O., Chester Co., PA.

Chrysanthemum Etoile d'Or,

(single yellow daisy), plants from 3-in. pots, now ready. Stock limited.

\$3.00 per dozen; \$20.00 per 100. 50 at 100 rates.
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The cut blooms are very desirable, and bring a good price.

If you want any Field-Grown
Yellow "MUMS" for Christmas.

Send One, Two, Three or more Dollars to
GEO. A. KUHL, Pekin, Ill.
 Will guarantee quantity will suit.

Coleus.

As fine a collection as can be found in the country.

ROOTED CUTTINGS GIANT DOUBLE ALYSSUM, &c.
 Send for list of prices of Cotens and Carnations.
W. R. SHELMIRE,
 AVONDALE, Chester Co., PA.



SPECIAL INDUCEMENTS.

For the remainder of this month we offer a large stock of small **PALMS** in 2-inch pots, such as **ARECA LUTESCENS, KENTIA BELMOREANA, LATANIA BORBONICA, Etc.** The plants are all strong and clean, and in excellent condition for growing on. We also recommend our unexcelled stock of **FERNS** and **ADIANTUM FARLEYENSE.**

Cut Cattleya Flowers of very superior quality can be supplied at all times in any quantity, and

• • • • • **BOXES OF CUT ORCHID FLOWERS, \$5.00 to \$25.00.**

FOR IMMEDIATE DELIVERY.

LILY OF THE VALLEY, strong 3 year old sand grown Berlin forcing pips, \$9.00 per 1000; \$42.50 for 5000.
SPIRÆA JAPONICA GRANDIFLORA \$6.00 per 100
SPIRÆA ASTILBOIDES (New) 18.00 per 100
TUBEROSE BULBS, 4 to 6 inches in circumference:
Double Excelsior Pearl 9.00 per 1000
Tall Double 9.00 per 1000

In evidence of the great value of our **NEW CHRYSANTHEMUMS** named **J. H. Troy, J. E. Lager**, and others, as Florists' flowers for commercial growing, a number of the largest Chrysanthemum growers in the vicinity of New York, who saw them in bloom in our houses, have ordered them in lots of 250 to 500 each.

PITCHER & MANDA (Inc.) Short Hills, N. J.

100,000 VERBENAS. THE CHOICEST VARIETIES IN CULTIVATION

Fine pot plants, \$2.50 per 100; \$20.00 per 1000. Rooted Cuttings, \$1.00 per 100; \$8.00 per 1000.

NO RUST OR MILDEW.

PACKED LIGHT, AND SATISFACTION GUARANTEED. SEND FOR CIRCULAR.
 We are the Largest Growers of Verbenas in the country.
 Our plants cannot be surpassed.

J. L. DILLON, Bloomsburg, Pa.

Gardiner's Celebrated English

Mushroom Spawn.
 Fresh and Reliable.
 \$7 per 100 lbs.
 Special price on larger quantities.
John Gardiner & Co., Philadelphia, Pa.

COLEUS.

. . . Rooted Cuttings.

10 best Bedding kinds:
 By mail, 60c. per 100;
 By express 50c. per 100.

CASH WITH ORDER.

S. O. STREBY,

Lock Box 77,
 UPPER SANDUSKY, OHIO.

TO FLORISTS.

We, making a specialty in growing Lily of the Valley, produce plenty of foliage with the flowers, and offer them for Christmas at \$5.00 per 100.

ROMAN HYACINTHS, \$3.00 per 100 ready for shipment either by express or mail about Dec. 20.

Also a fine lot of **CHRYSANTHEMUMS**, yellow and white, in good condition, from \$5.00 to \$10.00 per 100, according to size.

SMILAX, 15c per string. **STEVIA**, 20c. per bunch. **Perle des Jardins** Roses \$5.00 per 100.

CASH WITH ORDER ONLY.

GODFREY ASCHMANN,
 GROWER OF FLOWERS AND PLANTS,
 1012 Ontario St., PHILADELPHIA, PA.

WANTED.

Offers of nursery-grown **TREES** and **SHRUBBERY**, at low prices; trees to be from one to three inches in diameter; shrubs to be bushy, and not less than three feet high. Give lists of kinds, sizes and prices.
 Address **PARKS**, care American Florist, Chicago.

When you write to any of the advertisers in this paper please say that you saw the advertisement in the American Florist.

Michel Plant and Bulb Co.,
WHOLESALE FLORISTS,
 ST. LOUIS, MO.

GERANIUMS.

The **BEST** of the **BETTER** sorts, large stock of the single and double scarlets, all good bedders. **Rooted Cuttings:**

Labeled \$1.50 per 100; \$12 per 1000.
 Without Labels. \$1.25 per 100; \$10 per 1000.

Coteus and Alternanthera in season.
ALBERT M. HERR, L. B. 496, LANCASTER, PA.
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JAPANESE IRIS,
 A splendid collection.
PHLOX,
 In bright desirable colors.
PEONIES,
 Choicest varieties.
 Send for Catalogue and special trade prices.



OASIS NURSERY CO.,
 Thos. Griffin, Mgr. Westbury Station, L. I., N. Y.
 Mention American Florist.

Stock plants **Verbenas**, first-class colors, \$2 per 100
 Stock plants **Buttercup Carnations**, fine plants, 6 to 8 cts.
Gladiolus, mixed, light shades predominate, \$1 per 100. Small bulbs of above for florists' growing.
McCREA & COLE, Battle Creek, Mich.

New Notes.

NEW BEDFORD, MASS.—H. V. Sowles has opened a new florist's store at 632 Purchase street.

BELFAST, ME.—W. E. Hamilton has fitted up a very fine establishment in Pierce's Block on High street.

MILLBROOK, N. Y.—Lester & Smith have dissolved partnership. The business will be continued by H. J. Smith.

LAKE CITY, MINN.—The annual winter meeting of the Minnesota State Hort. Society will be held here January 8 to 11.

GALT, ONT.—The wife of Mr. Alex Common, the florist, died October 15, aged 44 years. She had been in delicate health for some time.

LANSING, MICH.—Henry F. Dew has sold his greenhouses and stock to J. Besinger. Mr. Dew has removed to Albion, Mich., where he will start a new business.

KENTON, O.—W. Sabransky, for the last three years foreman for A. R. Aldrich, Springfield, Ohio, has rented the place of Jas. W. Lang in this place. He took possession October 1.

PEORIA, ILL.—Steps are being taken to secure legislative action that will permit the park board to issue bonds, from the proceeds of which the three parks will be considerably improved.

ABILENE, KANS.—The annual chrysanthemum show by Mrs. S. M. Bagley, the florist, was very attractive. The plants and flowers were excellent in view of the fearfully hot dry summer in this section.

TALLAPOOSA, GA.—Henry W. Ash, prominent in Iowa horticulture, died at the residence of his sister in this city December 14. He had come south for the benefit of his health, which had been failing.

ATHENIA, N. J.—On November 30 at 3 a. m. fire destroyed 1500 feet of glass, about one half of the establishment of Geo. W. Vreeland. The fire is supposed to have been of incendiary origin. The remaining glass will now be devoted to spring bedding plants.

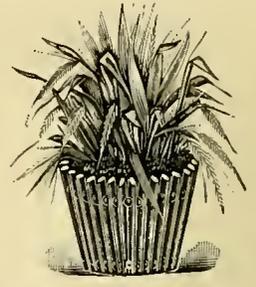
DES MOINES, IA.—The election of officers for 1895 at the annual meeting of the Iowa State Hort. Society resulted in the selection of the following: M. E. Hinkley, Marcus, president; J. M. Elder, Concord, vice-president; J. L. Budd, Ames, secretary; W. M. Bomberger, Harlan, treasurer.

DIXON, ILL.—At the meeting of the Illinois State Hort. Society the election of officers for 1895 resulted as follows: T. A. Goodrich, Cobden, president; J. L. Hartwell, Dixon, vice-president; H. M. Dunlap, Savoy, secretary, and Arthur Bryant, Princeton, treasurer. The next meeting will be in Kankakee.

HAVERHILL, MASS.—F. W. Poore has finished a new house 19x100. Fred Luce has made a large addition to his buildings, including a seed and florist store. C. H. Kaulbach has put in a 40-horse power steam boiler and placed all his hot water boilers in one cellar instead of at the end of each house. The city has built a conservatory 18x60 for storage of city plants and propagating; it is the intention to erect another house 20x60 in the spring.



Pat. Plant Tubs.
NEW IMPROVED
ORCHID CRIBS.
A full line of
Florists Baskets
AND SPECIALTIES.



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New Catalogue (No. 4) containing over 1000 Ornamental Cuts for Florists use, such as envelopes, letter-heads, bill-heads, cards, advices, floral designs, etc., at from 30c. and upward. Price of Catalogue 25c. (deducted from \$1.00 order).

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ACME FOOD FOR
Vines, Plants, Fruit Trees, Flowers,
and Greenhouse use.

One hundred pounds of this concentrated, soluble and odorless fertilizer contains as much food for plants as One Ton of sheep, cow or horse manure. Try a 5 pound box for \$1.00 on your Roses or Carnations, Smilax, etc. Send for descriptive circular. Can be applied dry or as a liquid; the dry food must not come in contact with the stem of plant.

Put up in boxes of 1, 2½ and 5 lbs. each, with full directions; sells at 25c., 50c. and \$1.00 per box. Sample boxes, postpaid, 20c. Discount to the trade.

HERMANN RÖLKER,
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Mention American Florist.



Kills Mildew
and
Fungus Growth.
What does?
GRAPE DUST.
Sold by Seedsmen.

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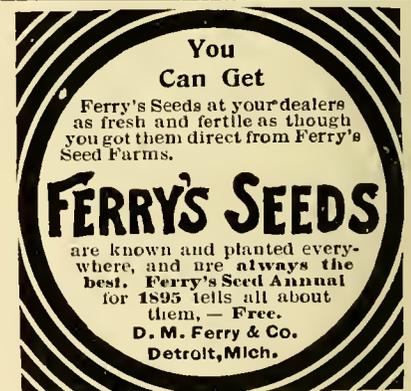


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Plants, Bulbs & Requisites.
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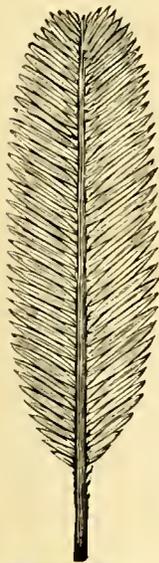
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GLASS. ROCK BOTTOM PRICES Send for Estimate. Satisfaction Guaranteed.
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ALL NEW GOODS SELECTED EXPRESSLY FOR THIS SEASON.

Flower Baskets, Imported and Domestic; Fern Dishes and Jardinieres in artistic patterns; Fancy Flower Pots and Pot Covers, Metal Wreaths, Doves and Cycas Leaves.

JUST THE GOODS EVERY FLORIST NEEDS.

Send for our Catalogue and compare prices before ordering elsewhere. You will find we are right in it this year.

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DEALERS IN FLORISTS' SUPPLIES,

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Sizes 1½-inch and 2-inch, \$2.00 per 100. Patent fastener with each letter.

With orders for 500 letters we give away a nicely stained and varnished box. See cut in next week's American Florist.

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Made up, nailed or lock cornered; or material cut to size ready to be nailed up at destination.

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¼, 5-16, ⅜, ½, ⅝, ¾, and 7/8-inch square, cut to lengths wanted.

When asking prices state sizes of boxes or stakes and quantity wanted.

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We Manufacture all kinds of Flower Pots, etc. Making a Specialty of

Florist Standard Pots

Send for price list and samples (which will be sent free), and we know you will give us your order.

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Three-Piece Wood Mailing Boxes.

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(TRADE MARK.)

To be applied with a bulb. The only putty made to work this way for greenhouse sash.

PUT UP IN 20 lb. CANS.

Has been used by florists in this city for years. Try it and you will use no other.

Read the following good report of our Green House Putty:

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We have been using the T. H. Nevin Co.'s Green House Putty for some time, and are pleased to recommend it to all those who wish a number one article. It has always given us perfect satisfaction. When you use this Green House Putty you will be sure of good results from same. Signed:
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HARTMAN BROS., Florists, Allegheny, Pa.

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Corroders of STRICTLY PURE LEAD,
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TOBACCO Per 10 lbs 50c; 25 lbs \$1.00;
DUST. 50 lbs \$1.50; 100 lbs \$2.50.
Extra fine, per 100 lbs. \$5.
Sample FREE.

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It is always a source of pleasure to look through a well kept establishment where on every side is stamped the unmistakable imprint of the true gardener, whose love of his plants for their own sake has not been diminished nor his ardor quenched by the cares and distractions incident to the struggle for financial success. Such an establishment is that of John Spalding. Its owner is a representative of the highest type of gardener, a "young old man" who carries his four score and odd years with the easy swing of middle age, a man of sunny disposition and kindly heart, to whom it is a delight to listen as he tells of gardening life in the far away days, of his father, "the grand old gardener of Woodside," and the incidents, instructive, amusing or pathetic, of his own early apprenticeship days in old Scotland.

Everything in Mr. Spalding's houses is well grown and in as good shape as can be expected where every plant has to pay more or less tribute to the demands of an extensive retail business. There was a fine display of chrysanthemums in their season of which Mr. S. says that "if not very profitable otherwise they brought the people here," and the houses occupied by them are now filled with azaleas. Lizzie McGowan is with him the most profitable carnation and the appearance of the plants bears out this assertion. Here we see two almost forgotten old acquaintances among the roses, Marechal Neil which Mr. Spalding terms "a grand old friend to a country florist," and Her Majesty, which he says he has devoted to the only use he can find for her, i. e., as a stock on which to graft the various popular commercial varieties.

Other relics of the past are some very large and vigorous camellias which are still retained, doubtless, for the reason mainly that their owner hates to part from them. A house of Harrisii lilies here is the finest the writer has had the pleasure of seeing this season.

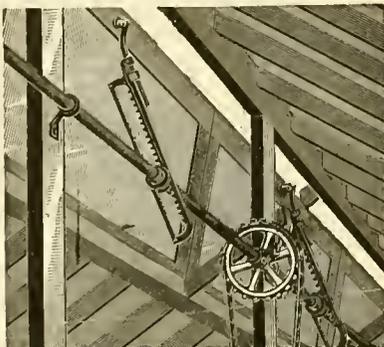
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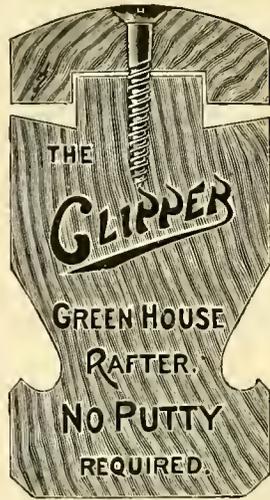
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Aren't you tired going through your houses two or three times a day year after year and lifting your ventilating sash one at a time and propping them up with sticks or pots, with a chance of having sash blown off and broken glass to pay for? If you are



We have got just the thing you need, the NEWEST and BEST thing out. "The New Departure" for about half the cost of the old style. Send for Descriptive Catalogue to

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A Different Letter Every Week

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Gentlemen:—The Cypress lumber for our greenhouse was received in good condition, and its fine quality and perfect workmanship have won the admiration of all who saw it. Nothing like it had ever been seen in this locality.
The Clipper bar has attracted special attention. The idea of a glass roof 24x100 feet without puity or tacks is new to most of our people, and is a success.
Yours respectfully,
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STANDARD FLOWER POTS

Every user of Flower Pots should correspond with us before purchasing elsewhere. Our facilities are unequaled.

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Announcement to Florists.

We desire to announce the dissolution of the firm of Sipfle Dopffel & Co., and to introduce to the trade its successor, The Syracuse Pottery Co., which will be under the management of William Dopffel and Conrad Breitschwerth. The business will be conducted as heretofore, except on a larger scale to meet the growing demand for our goods. We have accordingly enlarged our plant and capacity, and with unsurpassed facilities are now prepared to fill the largest order on short notice. Our latest improved machines are turning out the best and most serviceable flower pots in the market, and assuring you of our intention to lead in further improvements we solicit a continuance of your patronage in the belief that we can supply just what is needed at a price and in a manner satisfactory to all.
Send for price list and samples and we know you will give us an order.

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We will furnish you with prices on application, and will fill all orders promptly. Our Pots are excelled by none in the market.

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Also Dealers in OIL BURNERS, and Agents for Snell's Hydraulic System of using Oil for fuel purposes. No odor, and 1/2 to 1/3 cheaper than coal.
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EXTRACT OF TOBACCO,
INSECTICIDE,

Death to Aphis, Red Spider, &c.
....WRITE FOR PAMPHLET....
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LOUISVILLE, KY., U. S. A.

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10 per cent. off for cash with order. Special discount on large orders. We carry a large stock on hand of good strong pots.

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2	" "	3.25	" "	35.00
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4	" "	9.00	12 "	20.00
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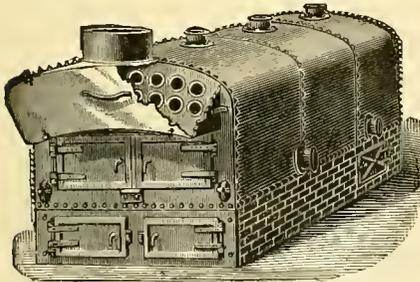
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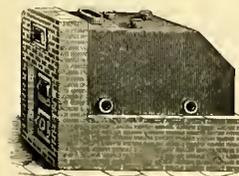
Boilers made of the best of material, shell, firebox sheets and heads of steel, water space all around (front, sides and back). Write for information.



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BEST IN USE
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All Steel. No Coils or Cast Iron Sections.
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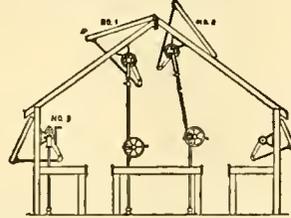
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The florist's friend in working and prices.



No repairs for 5 years. no chains to break as is the result with others.

Opens Sash uniform on 100 foot houses. A new device.

Send for Catalogue and Estimates.

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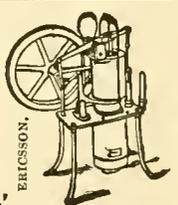
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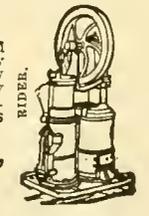
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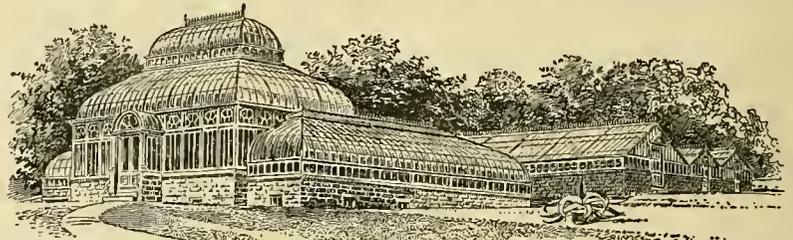
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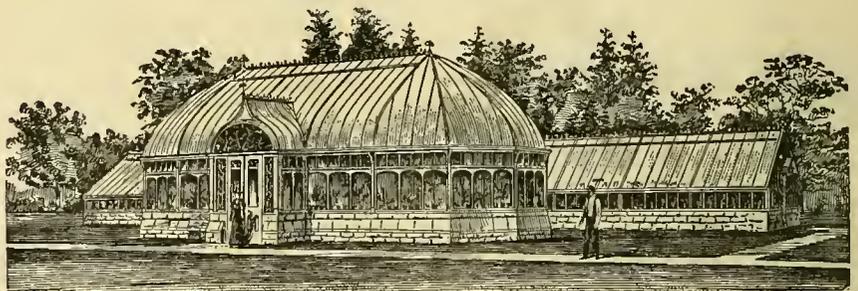
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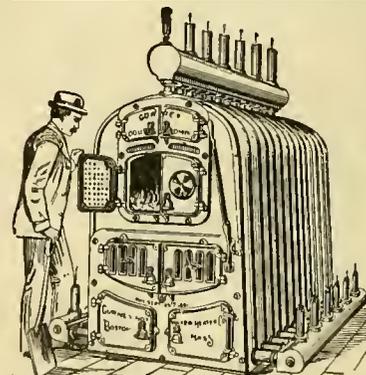
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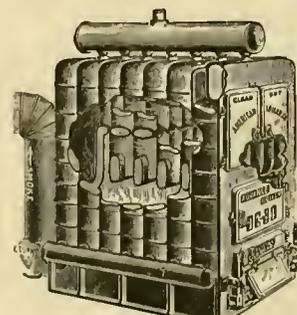
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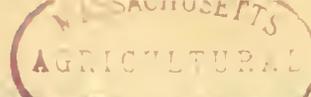
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THE AMERICAN FLORIST



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Vol. X. CHICAGO AND NEW YORK, DECEMBER 29, 1894. No. 343

THE AMERICAN FLORIST

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SOCIETY OF AMERICAN FLORISTS.

J. T. ANTHONY, Chicago, president; ROBERT KIFT, Philadelphia, vice-president; WM. J. STEWART, 67 Bromfield St., Boston, Mass., secretary.

The new officers to be installed Jan. 1, 1895, are: EDWIN LONSDALE, Chestnut Hill, Philadelphia, president; E. C. REINEMAN, Allegheny City, Pa., vice-president; WM. J. STEWART, Boston, secretary; H. B. BEATTY, Oil City, Pa., treasurer. The 11th annual meeting will be held at Pittsburg, Pa., August, 1895.

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The Arrangement of Flowers.

XV.

TABLE DECORATIONS.

The table decorations illustrated in this issue comprise the ten entries at the recent Chicago exhibition. It is to be much regretted that better photographs could not be secured, but this proved impossible owing to the strong contrast between the dazzling white of the linen and the dark foliage under the electric light. However, to the professional eye the main points will be clear. Our aim here is to consider the matter of table decorations from the commercial as well as the artistic standpoint.

The vital point in dinner table decorations—the arranging of material in such a way as not to obstruct the view—is so well understood by the majority of florists with experience that it seems superfluous to again mention it. The new beginner, however, is very apt to violate this first principle, and to them let us emphasize this general rule once more: "If the decoration is intended to come below the vision don't exceed a height of 15 inches; if above, or a combination of the two, such as is shown in the third prize table, the line of the upper arrangement should stand not less than 24 inches above the level of the table. As to the first point as above mentioned no adverse criticism can be passed on any one of the decorations illustrated since all of them are kept within proper bounds.

But let us advance to the second rule, "don't overcrowd," and then we find that some of the oldest and most experienced hands at times make the gravest error. We find this exemplified in two or three of the arrangements under consideration. The fault is generally shifted onto the caterer for setting too small a table. How often do we hear the remark: "If the table was only a couple of feet larger the decoration would just fit it." Yes, very true, but the table is not supposed to be set to suit our design, on the contrary our design must suit the size and shape of such a table as is provided, so that is the first thing for the decorator to ascertain, and there is positively no excuse on this score that the experienced florist can offer. The greatest danger in overcrowding is generally experienced with a long narrow table. Often such a table is only 4 feet wide, a width so narrow that a regular centerpiece is out of place since the space at our disposal is only about 12 inches, allowing a space of 18 inches from the edge of the table for the service. For such a table the most suitable decoration would probably be an arrangement of loose cut flowers placed in cut glass bowls, one for the cen-

ter filled to be the most prominent, and one at either end. A few blossoms and ferns might be added, being arranged between the bowls, or you might place a bowl of flowers in the center and a pair of fern dishes at the ends with good effect.

Now let us analyze some of our illustrations, the first being the one awarded first premium. This is a round table 9 feet in diameter, the ideal size of a table to seat from 12 to 14 persons in comfort, and also the size and shape par excellence for arranging an effective decoration. Of course such a table might be overdone but there is little danger of crowding on to the service line. The centerpiece in this decoration consists of an arrangement of adiantum and Cypripedium insigne in the shape of a three-leaved clover, the loose arrangement of the material giving it a round effect, slightly depressed on three sides. The wire frame used for the purpose was 12 inches in diameter lined with tinfoil on both sides, in the center of this was placed a fine plant of Adiantum gracillimum tipped out of its pot, the height of which when in position being about 15 inches with 24 inches spread. Around the ball of the plant sphagnum was closely packed with a layer of live green moss on top, this being tied in firmly. The cypripediums were fastened onto short match sticks in the usual way and arranged around the fern in three irregular clumps, with an edging of Selaginella dentata. This arrangement was placed on a circular mirror 36 inches in diameter, the edge of this being encircled with a wreath of selaginella wound on a wire hoop. This selaginella, in our market at least, can not be bought except as growing plants and therefore is more expensive than the cut fronds of adiantum, which latter might be used also with good effect. But there is no comparison in the keeping qualities of the two, the fern as we know wilting in a few hours while the selaginella will last in perfect shape for days, even in a warm room and out of water, and is therefore far superior. Around the center arrangement, which takes up a space of 38 inches in diameter when complete, were placed 6 little cocos about 9 to 10 inches high; these were tipped out of their pots, the balls of the plants being wrapped in green moss and then covered with selaginella arranged to give the appearance of growing around the base of the cocos. Two cypripediums and a piece of selaginella in front of each plate completed the arrangement. It must have been apparent to all observers that in this arrangement, which applies also to other designs, in orchids particularly, the growing plants were of immense advantage over the cut material and it adds character and naturalness to a design hard to obtain in any other way; but most important of all, such a decoration will last three or four days. The expense is not so very great either: 1

adiantum \$1.50, 50 cypripediums \$12.50, selaginella \$3.50, 6 cocos \$2, loan of mirror, etc., \$2, total \$21.50. The retail figure, at a handsome profit, would therefore be say \$45.

The second prize table, the next in order, is a very simple arrangement of cattleyas. The flowers in the centerpiece (about 2 dozen *C. labiata*) were arranged in a cut glass bowl with *A. Farleyense*. The effect was good but there was lacking that light and airy appearance so essential in an orchid arrangement. *Farleyense* is undoubtedly one of the most beautiful of ferns but is rather too heavy and massive for good effect when placed between the flowers. For a border, or laid loosely on the table, this fern shows up to the best advantage. The balance of the decoration consisted of four small slender stem cut glass vases each holding one cattleya and a piece of *Farleyense*, a few fronds of this fern being laid about the table. Cost: 30 cattleyas \$15, *A. Farleyense* \$5, incidental expenses \$1, loan of vases \$1, total \$22. Double your cost and you have \$44 as your legitimate retail price.

A table decoration of cattleyas need not necessarily be a very expensive one. Suppose you arrange a centerpiece of growing ferns, something at a cost of say \$5. One dozen cattleyas placed in four low dishes (cut glass is the best), 3 flowers in each with a few fern fronds. Set these (your table being circular) 8 to 12 inches (according to the size of the fern arrangement) inside of the centerpiece, and you have a pretty table at a cost of about \$12.

The next table (third prize award) is like the foregoing, a circular shaped one with an arrangement of yellow chrysanthemums. In the center stands a tall slender twisted glass vase which holds about 2 dozen "mums" arranged with *Adiantum* princeps. Around this vase is placed a wreath four feet in diameter of the same material. This decoration was quite effective, but as necessarily the flowers in the wreath had to be used with short stems, this part of the arrangement looked rather too massive. A single bloom of the same flower was placed beside each plate. Taken all in all the arrangement as a whole was probably as well done as could be expected to result from the employment of such large and heavy forms in "mums" as are mainly grown for the market nowadays. It is next to impossible to do artistic work with such material. Looking at the "mum" question from the decorator's standpoint what an improvement in this line might be effected with certain types despised at the present day, which for graceful effect in arrangements outclass all the modern varieties. We may figure the cost of this table as follows: About 100 chrysanthemums \$15, *Adiantum* \$2, wire frame, etc. \$1, total \$18. Retail price say \$35. A very good decoration, however, can be put up of the same class of material by reducing the quantity to suit the price, at any figure from \$10 upward.

No. 4 is an oblong table with an arrangement of Bridesmaids in the shape of an oblong hollow square, a candelabra being placed in the center. As is shown plainly in the picture the design is too wide in proportion to the width of the table (which is about 4 feet). With a diameter of about 2 feet the arrangement leaves only a space of one foot for the service, which on the whole produces an overloaded effect notwithstanding the fact that the arrangement of the material was loose and graceful. One vase with foliage is placed in front of each plate. Cost: 200 roses \$10, *Adiantum* \$1, wire

design, moss, etc. \$1, total \$12. With the material at the price quoted such a table can therefore be reproduced at a good profit for \$24.

No. 5 is a square table. The size (6x6) is rather too small for 12 covers in the first place; certainly the mound of flowers placed in the center, fully 3½ feet in diameter, is by far too large and massive for such a table. About 40 *Cypripedium* insigne and 300 lily of the valley were used in this arrangement, placed in a square plateau. The cypripediums with *Adiantum Farleyense* forming the center, the valley filling the outer edge, about a foot in width, the effect being very heavy. Two cypripediums for the ladies and a boutonniere of one-half dozen valley for the gentlemen being placed beside the plants. The cost would probably stand something like this: say 50 cypripediums at 25c. \$12.50, 300 valley \$12, *A. Farleyense* \$3, wire frame, etc. \$1, total \$28.50. Retail price \$58 to \$60. But for a table of this kind one-half of this material would be quite sufficient, which amount would give a much better result.

No. 6 shows another round table, a very neat affair in pink and white. The centerpiece is formed of *Testout* roses placed in a fair sized cut glass bowl, *Adiantum* being added for green. This arrangement of roses was placed on a mat formed of white chrysanthemums with a border of *Adiantum* cuneatum. In our own judgment if the "mums" had been left out and only the ferns used, or perhaps a fringe of valley, the effect would have been heightened; at any rate the large white chrysanthemum for the gentlemen's boutonniere was not in keeping with the ensemble. Aside from this little defect the effect of the arrangement as a whole was pleasing. The color effect, a perfect union of flowers and table ware (also in pink), was really fine. Altogether such a simple decoration can be highly commended. In point of expense it comes within the reach of people with simple tastes and moderate means. Let us say 75 roses for the bowl and two each for six ladies and one each for the same number of gentlemen, that makes 93, say 100, \$5, 100 *Adiantum* \$1, loan of bowl \$1, if we figure in the chrysanthemums this would add \$2 more; if we use say 50 valley instead or Roman hyacinths the cost would practically be the same, the total reaching \$9 to \$10 (don't confound this with Christmas prices). Handsome retail price \$20.

In No. 7 we have a violet table. In shape it is round, like the preceding one. The center design is in shape something like a wheel without the tires. The frame (wire) being mossed in the usual way is filled with the violets, these being fastened on picks and arranged at the height of an ordinary wreath. The center, which we might call the hub, contains a clump of valley. Bunches of about 50 flowers tied with a narrow purple ribbon were used as favors. Violets used in a set design of this kind lose their individuality and the more elaborate the more disappointing such an arrangement is apt to be. In mid-winter such a decoration is rather an expensive affair and it isn't very often we are called upon to furnish the like. The number of flowers required depends somewhat on the size of the blooms; 1,500 of the largest flowers would probably be enough, while if the blooms be small it would take a thousand more; even at the low figure of \$1 per 100 the lowest estimate would bring the cost price to something like \$25 to \$30. Our own idea of a table decoration with violets is radically different from the one

under consideration. As for instance, take for the central figure (for round table) a dish filled with growing ferns and then scatter your violets just as liberally as your price allows all over the table cloth among the dishes. Or a combination of growing ferns and pots of violets in bloom plunged in a bed of green moss would make a fine centerpiece. If violets in pots are not to be had clumps of the cut blooms might be arranged with plenty of their foliage to resemble growing plants. But these are suggestions which we intend to illustrate more fully in the future, as well as the various combinations of violets with valley, Romans, etc.

No. 8 shows a design in *La France* roses. A plant of *Adiantum Farleyense* forms the center, the roses being arranged in combinations of crescent wreaths or more properly speaking garlands. These are tied together with streamers of pink ribbon, the arrangement as a whole lacking somewhat in grace. A judicious use of *Adiantum* fronds would greatly add in this respect. The *Farleyense* too in the center instead of giving a relief rather added to the stiff effect. *A. gracillimum* or *cuneatum* would be more graceful. *La France* roses are very effective for a table decoration but these and other roses of the larger type when arranged in low forms like the present where the stems are cut to a length of 3 inches, wired onto picks and treated like a wreath in set form are rather difficult to arrange in graceful style without a liberal use of some airy forms of foliage. As to the cost this design probably represents 300 roses, the cost of which at \$5 would be \$15, a good plant of *Farleyense* would cost say \$5, ribbons \$3, wire frames, etc. \$1.50, total \$24.50. It would therefore follow that the selling price would not be much short of \$50. For one-half the price, however, such a decoration might be furnished by substituting *A. gracillimum* for *Farleyense*, leaving off the ribbon and using one-third less in quantity of flowers.

No. 9 is an oblong table with a large oval center plateau of *Perle* roses and *mignonette*, in the center of which is placed a small glass vase which holds about one-half dozen long stemmed roses. For favors a half dozen roses are used, around the stems of which is folded a Japanese paper in imitation of a lace handkerchief, to which a small knot of violets is tied. A neat decoration of this material could be made at a first cost not to exceed \$10, the one in question probably figuring up considerably more (we are always speaking with a view to November prices): Say 100 first quality *Perles* \$3.50, 100 *mignonette* \$3, 50 roses for favors \$1.75, ferns, etc. \$1.75, total \$10. The arrangement of the same material might be varied. For instance, form an oval plateau of the 100 roses for the center, arrange two clumps of 50 each of *mignonette* and place at either end.

No. 10, the last of the series, is an arrangement of lily of the valley as the main feature. The table being round a circular shaped mirror is placed in the center, around the edge of which is arranged a wreath of *A. Farleyense* and *cuneatum*. Five low glass vases, each holding about 75 blooms and foliage, are loosely arranged, one being placed on the center of the mirror and the other four at equal distance apart around the table; four sprays of *Testout* roses, each containing 6 to 8 roses, are arranged between the vases of valley. Let us figure the cost at say 350 valley \$14, *A. Farleyense* \$3, other ferns \$1, use of mirror \$1, incidental



FIRST PRIZE ARRANGED BY P. J. HAUSWIRTH.



SECOND PRIZE. ARRANGED BY W. J. SMYTH.



THIRD PRIZE. ARRANGED BY J. M. GASSER.

THE PRIZE TABLE DECORATIONS AT THE CHICAGO EXHIBITION.

expense \$1, total \$19. Retail price \$38 to \$40.



Carnation Notes.

It is well at this time to investigate failures in some of our crops, for I question if there is one grower who can go through his place and say, all is well. Why has this lot proven unproductive? Why has this bench failed to come in for the holidays? Can you tell the cause of failure? If so, then are you fortunate; you will not be apt to make the same error again unless it is just as in the past, a lack of attention to detail. Perhaps you planted in this bench when the soil was too dry or that one when too wet; now these are not mistakes but gross carelessness and the best of growers take chances that are fatal and they knew better at the time of planting. Great is their sorrow now, for the crop is not what it would have been had they not been in so much of a hurry to get that bench filled and so we start into the new year with the determination to guard against all the errors of the past year and that great help to all mankind, hope, comes to our rescue and assures us that mistakes are of the past; we will make no more. "Just wait until next year and I will have a better assortment than now," or "I will have them all in for Christmas," is the remark we hear from so many. Better say nothing, for you may be in the same box again.

Then, too, some of us fail in growing carnations and without seeking the cause and sticking we go into something else which we understand as little as the carnation and lose again. I tell you there is no such thing as stick, only be sure what you are sticking to and why. Then again we are impatient and expect a variety which we know is a late bloomer to produce bloom from early until late, and force it along knowing all the time that good flowers will not come until February or March, and when the few that do come are shrivelled and poor, out they go and nothing to take their place, when if we had waited we would have been well repaid. This is a mistake, not so much the expecting a large crop early, but the planting of a late sort at all. Give them up; there are plenty of early sorts, why use late? Remember this in stocking up for next year.

I was surprised to find that in Boston Mrs. Fisher leads in whites. This is because Lizzie McGowan is not understood by the growers; it does not grow as strong in the field as the former and is therefore condemned. In several places where Mrs. Fisher was grown largely McGowan had but small space devoted to it, but upon these few plants were flowers in my estimation much superior to the average Fisher. If the Boston growers would propagate McGowan a little earlier and get larger plants I think (mind, I do not assert) they would discard Fisher. Although McGowan comes star-shaped under certain conditions it is to-day the best white for general cultivation. I merely mention this because it is an error that many make in discarding varieties because they fail the first year

of trying. True, there are failures the causes of which none of us can solve, but there are certain rules to follow which if closely adhered to will lead to an abundant crop and success. This point is plainly demonstrated from the fact that a grower at Flatbush who never grew a carnation until this year has now the finest houses of McGowan and Scott that I have ever seen, and not only this, but they are the finest and best grown plants of any sort which I have ever seen, and this grower, Mr. Suydam, has followed closely the instructions of his neighbors, the Dailledouze boys. Mr. S. has patience and a vast amount of common sense, an admirable soil and uses lots of manure. Some will say it is a greenhorn's luck, but if this were the case why should his violets and mignonette be in the same splendid condition?

CHARLES H. ALLEN.

A Carnation Puzzle.

The Heite Floral Co. have two places, one in Merriam, Kans., and one in Kansas City, Mo. At Merriam, Kans., two houses are planted to carnations, one house running east and west, the other north and south, and both are in terrible shape with the rust. Mr. Heite states that all the remedies advocated in the FLORIST have been tried, but with no good results. At their place in Kansas City, Mo., two houses are planted, one entirely to carnations, one to carnations and roses, houses running each way, are in the most perfect health, in fact could not be in any better condition; stock all grown at their place in Merriam, Kans.

Mr. Heite desires very much to know the reason why they do so well with him in Missouri and so poorly with his son in Kansas. Surely it can not be prohibition!

S. M.

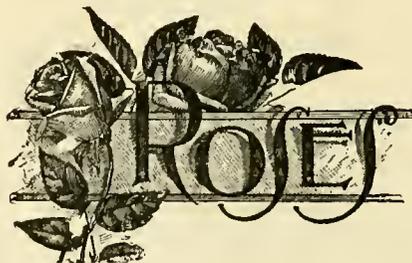
Chester County Carnation Society.

The above named society will hold its monthly and annual meeting January 5, at Kennett Square, Pa., and all introducers of seedlings might do well to exhibit. I will gladly display any flowers that are sent to me. EDW. SWAYNE.

Kennett Square, Pa.

Carnation Profits.

Will some of the carnation specialists give me an idea as to what should be the net profits from a house 14x150 filled with standard varieties grown under ordinary circumstances? W. W.



Cut Worms in Rose Houses.

A worm that has given me considerable trouble this fall in my rose houses is a greyish brown in color and from half an inch to 1½ inches in length. It does all its destructive work at night, coming out about 10 p. m. and hiding in the soil by morning. It climbs the plants, cutting off every leaf as it goes, and eats the bark from the young shoots, finally reaching the bud, where it borers a round hole into

the bud and feeds on the unfolded petals. During the months of September and October it very nearly stripped one house 20x75 feet of leaves, young wood and buds, then seemed to disappear for about three weeks, when we found another crop. We used lime water and tobacco with tolerable effect, but have not been able to entirely rid the houses of it. Can you advise me what to do? I. M. L. Pueblo, Colo.

From the description given I think it must be one of the cut worm family. There are several varieties of this nocturnal marauder (Agrotis family) and they are very troublesome in some sections. The best remedy found so far for exterminating them is to hunt for them in the evening after they have begun their night promenading, for this species prefer "darkness to light because their deeds are always evil." Furthermore they are gourmands of a very pronounced character, as they can eat enough at one meal to allow them to remain inactive for twenty or twenty-four hours after, and they are very wary critters to catch also, as they take care to cover up their places of retreat under some loose soil or similar material. Next to the "ketch 'em and kill 'em" remedy soot sprinkled thinly over the wholesurface of the bed or bench and washed in with the waterings is the best, as the strong pungent flavor of the soot water seems to disturb their repose, and I have seen them crawl out of their hiding place to die on the surface after its application.

If your correspondent will watch carefully just as it is getting dark he will see a dark brown moth around in the greenhouses, and if there happens to be any boards lying loosely together in the house these moths will be hiding there during the day. This is the parent of the worm, and by killing the old sinners the young ones will not come to sin any more. In the summer, principally during August and September, we frequently kill here two or three dozen in an evening. We lay loosely some old boards together purposely to trap them, and by following this up persistently we keep these night walkers in subjection. Like all other species these are more troublesome in some sections than in others.

JOHN N. MAY.

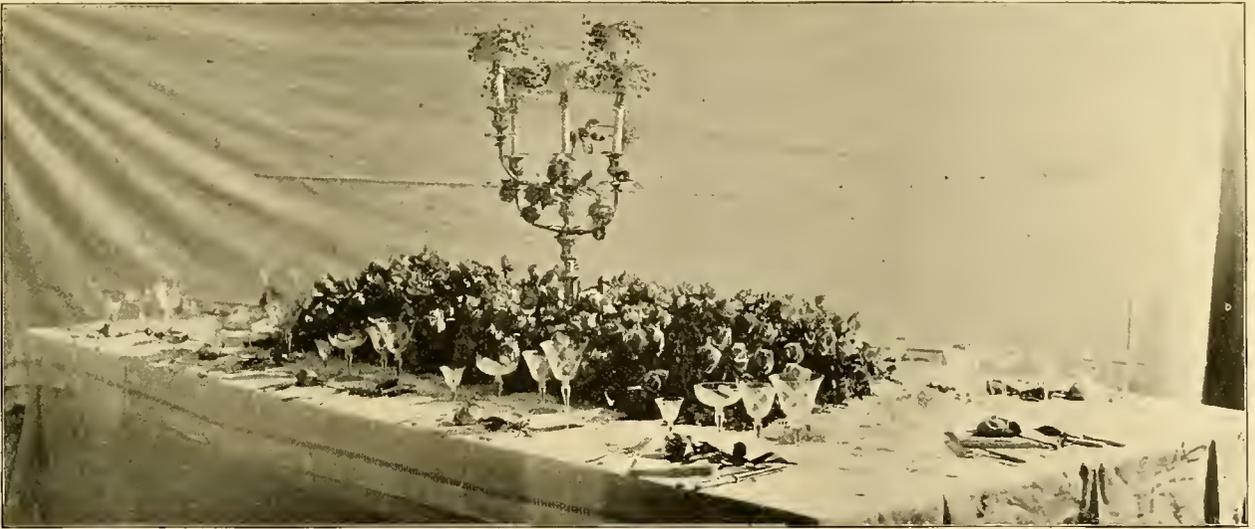
Why We Ventilate.

In a paper on ventilation read before the Society of Minnesota Florists, Mr. Louis Wilde of St. Paul said:

"In my opinion there are two good strong reasons why we should ventilate. First: To change the exhausted air of the houses for the purer one without, full of the elements necessary for plant life. Second: To regulate the moisture contained in the air in our houses."

In reference to his first reason Mr. Wilde holds that unless the air in the houses is frequently changed the plants will have an insufficient supply of carbon. And secondly that ventilation supplemented by artificial heat when the outside temperature is low, is the way to expel an over-supply of moisture. As an example of the value of ventilation during cold damp weather he relates that when through accident a house of roses was allowed to go without fire heat during such weather all suffered a check, and a week later dropped their leaves, with the exception of two batches over which the glass had been broken.

The main points made by Mr. Wilde have been frequently covered in cultural



NO. 4 ARRANGED BY J. M. GASSER



NO 5 ARRANGED BY ANTHONY & CURRAN



NO. 6. ARRANGED BY WALTER KREITLING.

TABLE DECORATIONS AT THE CHICAGO EXHIBITION.

notes in our columns in the past, though the scientific reasons had not been clearly set forth. To make absolutely certain as to the correctness of these reasons we submitted the paper to Prof. Wm. Trelease, Director of the Missouri Botanical Garden, who kindly replies as follows. "I enclose herewith Mr. Wilde's paper, which you sent me under date of the

20th. I should say that the two points that he makes for a liberal supply of "carbon" (which I should prefer to call available carbon, or carbonic acid, or carbon dioxide) and a reasonable reduction in the amount of moisture in the atmosphere are well made. All of the carbon that our higher plants use is taken from the carbonic acid of the air, and the

fixation of this carbon in the plant is closely connected with the amount of moisture in the atmosphere, which regulates the opening of the breathing pores of the leaves. I suppose that every plant has for itself a percentage of atmospheric moisture which is best, and any deviation from this, either above or below, would make some difference in the success

of the plant. We all know how prejudicial over-moisture (which a gardener would usually call lack of ventilation) is to seedlings, by inducing the fungus which causes 'damping off,' and the example that Mr. Wilde gives of the saving of certain plants where the glass had been broken seems to me capable of interpretation as he interprets it. However, it does not strike me that the ventilation is so much needed for carbon dioxide—of which I think any greenhouse must always contain a liberal supply—as for moisture."

Violets.

I have received from "D. P. S." a few violet plants; he says he bought the plants for Marie Louise variety, planted them on a bench, where they have apparently grown and budded, but never opened a flower. They have been grown cool.

The sample sent me was so dried up I could form no idea of the condition of the plants, much less the variety. I don't profess to be an authority on violets, yet a small bench of a few hundred plants which I have this winter are so grand in every respect that I feel I can say a little about what I don't know about violets. The longer we live the more we find out, and it appears to me that with the vast majority of florists violet growing is a gamble. You have them, and then again you don't have them. I have noticed this fall more than ever before that few men, if any, can say with any certainty "that's the way to grow violets." I have been interested the past month to notice in one small town within a few miles an attempt to grow violets under many different conditions, some with great success, some fair to middling and some a decided failure. Here are a few methods that I have noticed and had an opportunity to watch:

First: Runners taken off in April, kept in 2½ inch pots till August 1, planted in an equal span house running east and west. No glass over them till end of September. Very successful in every way.

Second: Runners taken off in April, planted in flats in three inches of soil; flats stood under apple trees till first week in August, then the plants put on a south bench of a large carnation house. These flower from middle of October, and are to-day a sight, covered with flowers of the finest quality.

Third: Plants kept in 2½-inch pots till October 1, stunted, then put on same bench as No. 2. Coming along, but no flowers worth speaking about up to date.

Fourth: Good large healthy plants lifted from field end of September and planted on same bench as No. 2 and 3. Result quite satisfactory, but not equal to No. 2.

Fifth: Plants lifted from field and planted along the south edge of a carnation bench September 15. Fairly successful; good flowers now and have been for the past month.

Sixth: Rooted runners planted in houses in June with glass on and not very much ventilation. Plants grew finely, flowered well in October and November, but are now on the wane, and have seen their best day. In the establishment is a bench of violets lifted from open ground middle of September, which are far better than those summered over under glass.

Seventh: Good plants lifted from field about September 20, planted on a bench in a lean-to back of a rose house where no direct sunlight has reached them since they were planted. Plants look healthy, but few flowers up to date.

Eighth: Small rusty plants badly

affected with red spider lifted from field end of September, planted in north lean-to without any sun. Plants now looking fine, full of promising buds and beginning to open.

I could go on and give a few more variations, but the above is enough. I would like one of those few violet experts to give us his method. In this neighborhood I can cite two growers at least who never grew violets in their lives till two years ago, and they both have been phenomenally successful. From my experience I shall enlarge on plan No. 2. Give them a carnation temperature, that is 45° to 50° at night, and let them run up to 60° or 65° in day time. Ice house method won't do to produce violets. Direct sunlight is I am sure not at all essential when flowering, but light they should have.

W. S.

Adiantum Farleyense.

Until recent years this adiantum was considered by many growers to be extremely difficult to manage. This difficulty must certainly have been overcome as it is being grown by some large firms in thousands and large houses are entirely given up to its culture.

To be successful in its cultivation, the following requirements are essential: It must be grown under the influence of abundant light, but not the direct rays of the sun; heat and moisture are particularly necessary; it will not succeed where either of these are deficient; i. e., it will not grow freely and make an elegant specimen, but will live and retain its beauty equally as long as any fern with these requirements absent. The temperature should not be allowed to fall below 55° during winter nights or the prettily colored leaflets will turn brown. It delights in a liberal supply of water; this must never be applied over head.

Regarding soil, it will grow best in pure light fibrous loam with a small quantity of crushed bone intermixed. When the plants get old the crowns harden and will not grow freely; in this case it will be best to divide into small crowns; these will grow very readily if placed in some light material in a box and put into a moist warm house; when they commence to grow they should be put in small pots and given a light warm position. This is the only method of increasing the stock as it never produces any spores.

The fronds will last a long time after being cut; they should be cut several hours before wanted and immersed in water; this will make them hard and durable.

F. L. A.

Nomenclature Committee Work.

It appears, from some statements recently brought to the notice of the Nomenclature Committee, that the above committee has been charged with personal bias in offering its criticisms. If such a feeling existed it certainly never manifested itself, and whatever was done by the committee was very carefully investigated before being committed to writing.

With reference to the chrysanthemum James Comley or Uncle Sam, the records of the American Chrysanthemum Society show that James Comley was the first name registered. The names Donald and Eugene Knapp were purely local, and it was not registered or disseminated under them. All the committee could do was to record the facts as presented.

With regard to Good Gracious and Princess of Chrysanthemums the report was accepted without any objection at

the convention. When, later, exception was taken to this the report was already going to press, and no change could be made, even if satisfactory reasons were given for doing so. It would seem that the proper time to amend the committee's report was when it was presented to the society. The Nomenclature Committee as a body were all perfectly willing to correct anything in which they were misinformed had it been proven to them that the report was incorrect at the time it was presented. ONE OF THE COMMITTEE.

Staphylea Colchica.

"Constant reader" ask: "What is the proper treatment to have it in bloom for Easter? Is it perfectly hardy same as the lilac? What time will it require and what temperature should it have?"

It is perfectly hardy; as hardy as a lilac. I forced it for the first time last winter. When received the plants were potted and stood in a cold pit. It will force for Christmas and come into bloom in about 6 weeks in a night temperature of 60°. I think that temperature suits it best, and for Easter it would come into bloom easily in 5 weeks. But the flower hangs on well and there would be no harm in having a week to spare. I forced them in a palm house where there was considerable shade on the glass. WM. SCOTT.

New York.

Christmas has come and gone, the figures are all in, and those interested may now compare results and see how it all foots up. As usual the unexpected has been doing a little happening on its own account, and the prophets, of whom there were plenty, and whose predictions were most often based upon their hopes rather than a knowledge of prevailing conditions, now have the benefit of their experience for use in future emergencies.

The story would be different from what it is had the clerk of the weather been in a different mood. No more propitious weather could have been invented for the production of good flowers in abundance than prevailed during the entire week preceding Christmas. With such weather it is almost appalling to think what might have happened had roses been "in crop" generally. The very large growers were nearly every one at the very lowest limit of production, and had the market been obliged to rely entirely upon these establishments then the predictions of a rose famine would have been fully borne out. But the receipts from the great army of smaller growers counted up enormously, and it was out of the question to bull the market in the face of such an onslaught.

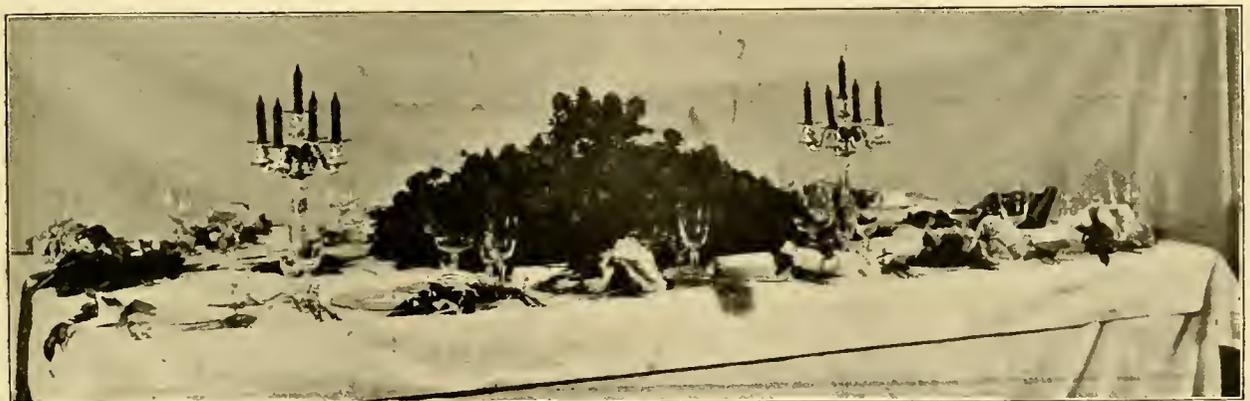
One peculiar result of the conditions above described was the sudden dumping of a quantity of badly spoiled stock on the market in the middle of the week at a time when nobody wanted it. It was very evident that the growers had been trying to save up the stuff, but the weather was upsetting their calculations, a fact which was still further demonstrated by the scarcity that followed immediately after and continued until the afternoon preceding Christmas, when dump number two took place. In the pursuit of this antiquated will-o'-the-wisp, however, it is pleasant to record that the larger and more prominent growers took but little part, and the personification of the quadruped with the long ears was left to their more stupid brethren who do not read the trade papers or whose skulls have not yet developed a vulnerable spot. It is encouraging to note that thies



NO 7. ARRANGED BY H. F. HALLE.



NO 8. ARRANGED BY A. G. SAMUELSON



NO. 9 ARRANGED BY ART FLORAL CO.



NO 10. ARRANGED BY O. J. FRIEDMAN.
TABLE DECORATIONS AT THE CHICAGO EXHIBITION.

unwise individuals are rapidly decreasing in numbers, and that altogether the quantity of stored stock seen was much less than ever before.

American Beauty was the best stock in the market. Everybody wanted them, and many more could have been sold, both locally and for distant points. There were some good Magna Charta and Diesbach in, and they sold well at from \$50 to \$75 per hundred. Small roses cleaned up fairly well, especially the colored varieties. White roses suffered somewhat in common with white carnations and other light colored stock. The sunny weather brought out a grand coloring on pink roses, Bridesmaid being particularly handsome. Carnations were aggressive and specimen blooms of the fancy varieties came in as sharp rivals for the smaller roses in popularity. Extra fancy flowers brought from \$6 to \$8 per hundred, and ordinary grades from \$2 to \$3, while the rubbishy lots of small or stored stuff brought nothing at all.

Violets unless superlatively good got it "where the chicken got the axe." In quality they varied greatly, but the supply was far beyond the demand, as predicted in last week's notes. That the stock of violets could have been kept in bounds by picking and putting on the market regularly at reasonable figures, say one-half of the price demanded, there is not the least doubt. A period of meditation on the dangers of overreaching is respectfully suggested to the violet growers before it gets too late.

The shipping trade might with a little encouragement have been made a powerful factor in stiffening up prices locally. The lack of supply at the time needed for this trade together with past experiences in handling stored stock at maximum prices had the effect of making the wholesalers cautious, and some of them preferred not to touch the shipping business. Those who made an effort for it had no trouble in securing orders, and a fair amount of this trade was transacted, but it was by no means as large as it might have been. There was difficulty in procuring stock on the 23d, which fell on Sunday this year, owing to insufficient accommodations on some of the railroads, Summit and Madison being especially unfortunate in this respect.

The retailers held off from giving advance orders and left the wholesale dealers in doubt akin to agony up to the last moment as to their wants. Throughout the preceding week they gave the cut flower trade but little attention, and devoted their time to the trade in holly, mistletoe and greens, and in advising their customers regarding the advantages of azaleas and other plants over cut flowers as holiday gifts. The people evidently believed them, for the trade in fancy wreaths of green trimmed with ribbon, etc., was unprecedented, and azaleas in flower sold as never before, the profit on these goods being much more tangible than that on roses, carnations and violets at holiday prices, and as to ordering stock for cut flower demands "Brer Fox, he lay low."

The large growers spent more or less of their time in town and kept a close watch on the movement of stock and general tendencies, and it was not surprising that an undercurrent of dissatisfaction was discernible and grievances on all sides given an airing. It seemed to be strongly impressed on the growers that opportunities for high prices had narrowed down until now Christmas is about all there is left for them, and this rapidly going the

same way, while the period of low figures is correspondingly on the increase.

Mr. A. Warendorf has offered to arrange the decorations on the table at the banquet of the Florists' Club at the Arena on January 19, and the committee has accepted the offer. All contributors of flowers will be requested to send them to Mr. Warendorf, and he will give his time to the work, which is a guarantee that it will be well worth seeing. The sale of tickets for the occasion is already quite large.

Siebrecht & Wadley are receiving from Trinidad magnificent leaves of *Cycas revoluta* and *circularis*, the latter averaging six to seven feet in length.

Philadelphia.

Christmas, merry Christmas, is over and a right merry time it was for all branches of the business. The grower whose houses were just in crop, or his neighbor who had managed to accumulate a stock by ways known only to those of the fraternity, were made happy by the demand and high prices. The commission men were smiling all week owing to the bright weather and the prospects of plenty of good stock to handle, and their features have hardly relaxed yet, as the remembrance of the good prices obtained flit across their memories. The storekeepers were happy on account of the good business in spite of the high prices. The volume of business increased about twenty per cent and prices on nearly all kinds of stock were from ten to twenty per cent higher.

Roses of all kinds were in fairly good supply, of course there were not enough Beauties or Belles, still there were a great many sold. John Burton had a fine stock of these two varieties as well as a goodly quantity of Brunners and Laings. The first quality of these varieties brought \$75 per hundred. His Meteors were also very fine and at \$20 per hundred there was not near enough to supply the demand. Mr. Lonsdale had a good lot of Beauties and also a good stock of orchids, which sold well, the cypripediums brought \$20 and the cattleyas \$50 per hundred. His Helen Kellers were very fine and all he could get for Christmas brought \$8. In the stores when it came to a question as to whether it should be a dozen of Perles, Gontiers or Helen Kellers at about the same price the carnations were selected as often as the buds.

Mr. Heacock had some Brunners and his stock of other teas, notably Brides and Bridesmaids, was very good. G. Anderson had some fine La France and Kaiserin, and Smith & Whiteley's stock of Kaiserin and Testout was very good. Messrs. Pennock of Lansdowne sent in some extra fine La France and Testouts.

Prices for roses were Beauties and Belles \$75 down to \$25; Brunners and Laings \$75 straight; all the large teas \$15 to \$20, smaller teas such as Gontiers, Perles, etc. \$8 to \$10.

Carnations were in great demand and of excellent quality as a rule; there was no sleepy stock in sight; this may be accounted for by the high prices and demand of the two weeks previous to the holidays. Any advance on these prices would have been prohibitive, and for once the growers were satisfied and let the stock go. It was a very poor specimen of the divine flower that did not sell at sight for \$3, and anything a little better brought \$4, at which price most of the stock was sold. Extra fine flowers sold for \$5, while Helen Keller and Della Fox, of which latter there is a limited stock,

brought \$8. Extra fine Wilders are sent in by Thos. Meehan & Son; as they grow it Wilder is hard to heat.

Bouvardia was to be had in limited quantities, and brought \$2.50 per hundred. Violets were rather plentiful; they were to be seen in all stages of perfection, and brought all sorts of prices. The top notch was \$2.50, but very few aspired to this position. They had to be fine to bring \$2, and the price soon weakened to \$1.50, at which price the majority of the stock was sold. Double violets are in great demand when they are scarce, but their market is soon overloaded; as the stock increases the demand falls off. As an instance of the fact that they were in full supply in some quarters, a Twelfth street florist decorated the harness of his dapple grey with double violets. He wasn't mean with them either; they were to be seen on both sides, front and back as well. Double violets have been considered the flower par excellence for the corsage, but it seems that as a decorative flower they can be made to go much farther.

Bulbous stock was to be had in quantity, and was of good quality, with the exception of valley, which was not up to the standard. \$3 to \$4 was asked for Romans, \$4 for paper whites and \$4 for valley. W. K. Harris had some scarlet Duc Van Thol tulips which brought \$5. Atkinson of Edgewater Park is first in with freesia, and had a few at 50 cents per dozen.

There was a good demand for blooming plants and azaleas; cyclamens, poinsettias and the like sold well. Azaleas sold for from \$18 to \$30 per dozen plants. Cyclamens, the stock principally from R. Craig's, brought \$50 per hundred pots. Edwards & Son of Bridgeton had good ardisias \$6 per dozen in 4-inch pots, well berried. House plants had a great sale, and fern dishes were filled without number; the demand for these dinner table ornaments seems to be increasing.

All kinds of Christmas greens sold well, notwithstanding that the streets were lined with them. Holly and mistletoe was very well berried this season and where it was handled carefully it sold readily at good prices, but there was lots of mistletoe that would not bring enough to pay the freight on it.

Smilax did not sell well for some season, probably because people are more particular and demand adiantum where before smilax used to be good enough, it moved very slowly at \$15.

The weather all the week before and up to Christmas day was perfect; there was plenty of sun, which brought out the flowers and the shoppers alike. There was some 10 degrees of frost on Christmas morning, which made it a little difficult to deliver plants, but this was the only draw-back. Since Christmas the flowers generally and particularly roses have taken a new lease of life and have colored up to a remarkable extent. Bridesmaid that puzzled the growers how to account for their pale appearance on the 24th are now, the 26th, a most beautiful shade and the weather has been cloudy ever since. At this writing a heavy snowstorm has set in, the first of the season, and it looks as if flowers would be scarce for a few days.

H. Bayersdorfer & Co. have just issued a catalogue which for artistic finish is one of the most beautiful we have ever seen. Every page is illuminated with elegant half-tone cuts and designs, illustrating their very large line of florists supplies. It is a very useful book and contains cuts of

designs that should be in every florist's stock.

Hot house tomatoes are now selling at from 20 to 25 cents per pound, and mushroom rooms at from 40 to 50 cents. K.

Chicago.

The Christmas trade, though not phenomenally large, was in every respect most satisfactory. The growers certainly have no reason to complain. In the first place the weather for two or three weeks past has been exceptionally fine, such as the most exacting grower could find no fault with in any respect, the days clear and mostly sunny and at night just a little frost. The effect of these conditions resulted, as might be expected, in a much larger supply than was looked for in the early part of the month, but the demand keeping pace with the supply no drop in prices occurred except on violets. These at one time threatened to be a glut. In the early part of last week the dealers were actually begging for violets but scarcely any could be had. Commencing Saturday they began to come in freely and by Monday the market was swamped with them. Opening at \$2.50 for A1 quality and \$2 for average stock prices gradually dropped to \$1.50, and poor stock went at much less, although towards the close the market advanced again a trifle. In quality the stock was fully up to the average, some being exceptionally fine.

In roses the stock was much more plentiful than was expected; this was doubtless owing to the fact that much of the stuff was held back until the last two days; a good share had evidently been pickled for a long time and caused more or less complaint from the dealers. This stuff, however, had little effect on really good stock, which latter was all disposed of in short order at top prices. On pickled stock of course there was quite a cut in prices but very little of even this class went at less than 5. The best Beauties, of which there was a fair supply, sold at \$75 to \$100. Testout, Bridesmaid and Meteor were greatest in demand, the supply being altogether inadequate to meet the call for these three varieties, the price ranging from 15 to 18 for good stock. In quality Testout and Bridesmaid, particularly the latter, were uniformly fine. The Meteors, however, ran very uneven in color. Brides appeared to be the most plentiful of all roses, in fact this was the only variety that had to be urged upon the buyer. In quality the stock varied a good deal, some being extra fine while a large part of the supply was only fair and some very poor. The best grades went at 15 to 18, medium at 10 to 12. Really fine La France and Albany were very scarce, the best might be classed as fairly medium; the price, however, ruled firm at 12 to 15. Merrimets, though of generally rather poor quality, sold well at 10 to 15, and even higher on some few high grades. Perles, Gontiers and Woottons brought 6 to 12. Some of the Gontiers sent in were extra fine and easily commanded the top figure.

The supply of carnations was about equal to demand, both being heavy. In quality this season's cut is far superior to anything seen before on our market. Of course some of the flowers went to sleep before they left the wholesale shops, still by far the largest part of the stock was in most excellent shape. Daybreak showed up in grand shape, the average quality being extra fine, and although the supply was probably four times as large

as was ever seen here at Christmas very few flowers were sold at less than 5, some extra select bringing 6. Scotts, also very fine, were scarce, and so was Helen Keller, the latter good but not of the phenomenal size we have read about. All the above sold at 5 for the best. Tidal Wave, Portia and Garfield were all good and in extra demand at 3 to 5, some extra fine Tidals (grown by Henry Mundt) going as high as 6. White was most plentiful and the only color of which a few were carried over. Romans came in very freely; the demand for these being rather light some stock was left unsold. Narcissus went fairly well at 4 Valley, demand good, stock fair, both in quality and supply, price 5 to 6. There was some very fine mignonette, selling readily at 3 to 4.

The local retail trade is reported excellent everywhere. Everything was cleaned out and fairly profitable prices were realized. Holly sold well, but green went rather slow.

While the general public lamented the absence of regulation Christmas weather the florists were mighty well satisfied. Delivery was accomplished with comparative ease and there were no losses. The day following Christmas was colder and Thursday was sufficiently wintry to satisfy the most fastidious. The snow fell all day long and was accompanied by a blustery wind. The boys can thank their stars that such weather did not come a few days earlier.

The annual meeting of the Horticultural Society of Chicago will be held at the Sherman House Saturday, January 12. This will be an important meeting as in addition to election of officers for 1895 some proposed changes in the policy of the society will be up for discussion and action.

Boston.

Christmas weather in Boston was glorious, and the florist trade enjoyed its full share of patronage from the multitude of shoppers who thronged the streets. There were a couple of surprises in the cut flower trade. The biggest of them was that the rose as an indispensable favorite got, not quite a black eye, but a slightly discolored one; and what do you suppose did it? "It" said the carnation.

The eagerness with which fine carnations of the modern well-fed type were snatched up at full prices was most remarkable. Equal food for thought was the indifference manifested towards the once invincible rose when carnations could be had instead. Roses were not overplentiful, but there was a supply sufficient to fill all reasonable demands, and white roses went decidedly slow. White carnations were slightly overstocked, but colored ones to the number of many thousands more could have found a ready market. It really begins to look as though the time is not far off when the price of roses will cease to be the all important consideration in holiday trade.

Violets suffered more than any other flower from overstocking, and some of the growers who have been unwilling to pick their flowers for the past two or three weeks, excepting under the inducement of maximum holiday figures, see now where they made their mistake. The present is the first season in which single violets have been grown to any extent for this market. Large quantities of the Czar are being brought in, and their fine color, superior fragrance and comparative cheapness have brought them rapidly into popularity, the effect

being felt sharply by the old favorite doubles. Undoubtedly the single violet has had much to do with the slump in double violets in the present instance.

With the exceptions above noted the wholesale dealers are all well satisfied with their Christmas trade. Local demands materialized late, but were all right in the end. Shipping might have been done more extensively if the stock procurable for that purpose had been up to the mark, but some of the growers have not yet forgotten their old game, and there was too much aged stock floating round to make shipping either satisfactory or safe. The retailers all seem highly elated over their business, which they generally report as the best they have ever had.

Holly sold better than ever before, and even mistletoe showed considerable life at the last moment. Holly wreaths were well cleaned up, but there was not any use for holly crosses, and many of these are left, as are also the large elaborate wreaths made of evergreen foliage, and cones in variety. These were once very popular, but people seem tired of them now. Down at the big markets the usual display of greens were made; whole forest of fir trees whose balsam odor was exceedingly pleasant; coils by the thousand of festooning and countless wreaths, stars, bells and crosses gaily spotted with everlasting in every hue, and on every hand the loquacious country man whose family had spent the whole fall in fashioning the wondrous contrivances and who addressed you as "My friend" and "Captain" as you passed his stand; but apparently this line of trade has declined greatly from its former proportions, the southern holly, pines and other introductions of the florists having largely superseded it.

Mr. Michael Barker of Cornell University is expected to address the Gardeners' and Florists' Club at its next meeting.

Toronto.

The annual meeting of the Gardeners' and Florists' Association which was held on the 18th inst. was largely attended and great good humor prevailed. At the election of officers no one seemed to want to fight, and only in the case of the second vice-president was the ballot necessary. For all that though there were several surprises and great changes were made. Mr. A. H. Ewing for private reasons (that afore mentioned girl I expect) declined to run for secretary for at least this year and Mr. H. Simmers did likewise, for private but not similar reasons. These two gentlemen are not by any means lost to the association, however, they will still take an active interest in all its proceedings. The slate stands as follows now:

President, Walter Muston (of Messrs. Spears & Muston); 1st vice-president, Geo. Reeves (Reservoir Park); 2nd vice-president, A. Macpherson (gardener to Col. Sweny); secretary, E. H. Carter (Riverside Park); treasurer, Wm. Hill (florist, Yonge street); assistant secretary, M. B. Spears (Der Park); executive committee, Messrs. Vair, Chambers, T. Manton, Briggs, Simmers, Tidy and Mearns.

There is a good lot of new and young blood in this crowd and if they don't make things hum this year it will not be the fault of the other fellows.

The late secretary and treasurer made their annual reports, both showing a favorable state of affairs although the balance at the bank is not overpoweringly large. Printed statements were

ordered to be distributed at the next regular meeting.

There was some discussion as to the advisability of amalgamating the July show and the chrysanthemum show and a committee was appointed to confer with the directors of the Electoral District Agricultural Society who hold the July show. This committee wants to be careful how it acts in this business, the circumstances are complicated and peculiar and they will have to deal with men of considerable shrewdness and influence. The association does not want to play second fiddle to this agricultural society if it can be avoided.

On the Saturday before Christmas the market seemed to be pretty lively and the florists were doing a fair business; the weather turned colder in the night but it was just warm enough to allow of palms, etc. being exposed under an open shelter. Twenty-five cents a bunch of seven violets was being asked, not many were being sold at that price though, but the stores want them and they will be scarce on Monday. At the stores trade was very good too and people appeared to be spending their money freely wherever they got it from.

Sunday was a cold day, 20° of frost. Monday morning opened with about 8° of frost and getting milder, business lively all day but rain came on about 5 p. m. and spoiled the evening a good deal. However, when sales come to be totalled up I think it will be found that the average has been maintained if not exceeded.

Later.—Flowers of all kinds were cleared out. Some stores had sold all their roses by 12 o'clock and could not get any more. I was told that the big rose growers could have sold 20,000 more if they had had them. E.

Baltimore.

Merry Christmas to all! We have had one here in Baltimore, and though by the time this reaches the eyes of our neighbors Christmas will be a fast disappearing memory, yet we wish them all the quick sales and prosperous business which we have enjoyed here.

To begin with, there was a fairly sufficient stock of everything, even including violets, and the quality was uniformly excellent. The store men took advantage of it and made one of the most brilliant displays of window dressing ever seen here. The weather was as mild as May and with the exception of a slight rain late Christmas eve there was nothing to prevent the most delicate of shoppers from doing all the buying she wished personally. Don't say they didn't take advantage of it. Seldom, if ever, before have the streets been taken possession of so completely by eager and jolly sight-seers and shoppers.

The market men ought surely to be happy, for better weather for displaying plants and flowers in the open air could not have been expected; and a more extensive display of plants, flowers, holly, wreathing, and all sorts of Christmas "fixings" from the twenty foot spruce "tree" to the moss for laying around it could not be put in the stalls; and it all seemed to sell too. Everybody seems struck with an idea that the reign of hard times is over for a little while at least.

The customary aberrations of prices marked the season, particularly in violets, which had no doubt been boarded until the time when all expected \$2 at least at wholesale. In fact they were marked up at the exchange to \$2.50, but the supply

was so good and plentiful that they were sold at the same place Christmas morning for 50 cents a hundred. These violent fluctuations in the wholesale market did not affect the retail prices as much as might have been expected, and though a little inclined to droop Christmas morning prices were pretty uniform all over town.

The stock of primulas, cyclamens, ardisias and araucarias disposed of was something surprising, and at fair prices, cyclamens in 6-inch pots bringing \$1 each, primulas 35 to 50 cents, ardisia \$1, and other things in proportion. May the ball keep going now that it has had a good start is the earnest wish of many besides MACK.

St. Louis.

Christmas trade from all accounts can be classed as very satisfactory; almost all report having sold out at good figures early enough to insure a successful season.

Beauties, as was expected, took the lead, ranging in price from \$1.50 to \$2 at retail, according to the location, and were scarce even at that figure. The wholesale price was \$1 for firsts, ranging downward for seconds and thirds. Meteors were easily second in demand, good flowers selling as high as \$9 per dozen, this being the top notch, however, poorer stock dropping according to quality. Colored roses seemed to be called for in preference to white, good Brides would not bring \$5 per dozen. The same parties refusing to pay \$5 per dozen for good Brides made no objection to paying \$1.50 each for Am. Beauties.

Violets were in good demand, Marie Louise bringing \$4 per 100 retail; southern grown single went up to 40 cents per 100 wholesale, at which figure quite a number were sold.

Parties handling plants report an exceptionally good demand both for green and flowering plants, also for ferneries, quite a number of them having been filled.

Green of all kind sold well, several having sold out clean before Christmas day, and not having time to make up anything in the final rush lost considerable in possible sales.

Stock coming into the wholesalers showed less the effect of pickling than any received at the same time for several seasons. It is to be hoped that the improvement in handling will continue as it is vastly more satisfactory all round.

Wholesale prices were about as follows: Beauties 100 to 25, Meteors 15 to 25, Mermets, Brides and Bridesmaids 15 to 25, Perles and Woottons 8 to 10, Narcissus 5, Romans 3 to 5, carnations 3 to 4, poinsettias 12 to 20, double violets 2 to 2.50, and single 40 cents per 100.

R. F. T.

Buffalo.

Christmas has once more passed away and to the florist it must be called a satisfactory one. The weather continued its fair course and nearly all day Monday tender plants could be delivered without any protection of any kind, which helped along wonderfully. There has been no time to interview many of the craft, but what little I can glean is to the effect that trade all round was equal to the best of former years, and prices were certainly as high as ever and in some lines, more particularly plants, were a considerable advance over other years. The same old favorites ruled the day, roses, carnations and violets; Beauty was too ex-

alted altogether and most everybody kept their fingers off them. Brides, Bridesmaids, Meteors, Woottons and Perles sold well. There were flowers enough to go round and with roses and violets a few to spare. Carnations sold out very clean and retailed at one dollar per dozen.

The trade in holly and green was very heavy and although it was sold at every street corner it all went. Everybody wants a piece of holly in some shape or other. The demand for mistletoe was light and so was the supply. We could very near get along without this imported parasite.

The feature of this Christmas trade was decidedly the demand for plants and some of the firms could have sold far more than they had to offer. Medium sized palms went well. The plants that figured most in the sales besides palms were poinsettia, azalea, Liliun Harrisii, begonias, linum, primula, pans of valley, Roman hyacinths and narcissus. It can safely be said that in this branch of the business there was a marked increase, and it did not all come on the last day either, but started in a week ago.

W. J. Palmer & Son had a few good chrysanthemums, but W. J. senior says they did not create any great enthusiasm. The same gentleman showed me this morning a bunch of La Reine tulips that he said took fourteen days to force; they were grand with stems a good 12 inches in length, but there is no great demand for that stuff for a few weeks yet.

Daybreak held its own against all rivals as the popular carnation of the day, and within a radius of twenty-five miles of Buffalo a great many thousands of that variety were picked. W. S.

Cincinnati.

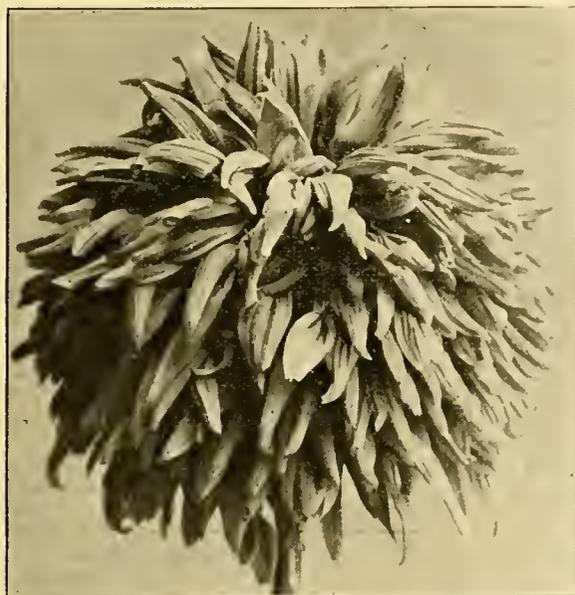
Christmas proved a surprise to most in the trade, business being much better in every way than was expected. The sales were larger than last year, but in most cases prices fell considerably below former averages, which was due to the bad weather. But neither wholesale nor retail men are inclined to complain, and as a rule they feel very cheerful.

The bulk of the flowers received here were of good quality. Red roses and red carnations and violets were in greatest demand. Beauties brought from 50 to 60. Meteors and Gontiers sold well but were very scarce. Perles sold at 6 to 8 and were a little scarce. Romans were in good supply and sold at 4. Some good valley was seen. Carnations sold readily at from 4 to 8; Harrisii only averaged \$2.50 to \$3 per dozen; callas hardly sold at all.

Among the retailers the general expression is one of satisfaction. Buyers were slow in placing their orders, most of them coming in the last day. Holly sold very well and was fine; many of the dealers ran short.

Plants of most all kinds sold well. There is a decided increase in demand for small palms for Christmas gifts, such as could be sold for \$2 to \$3. Azaleas, poinsettias, cyclamens and primroses sold quick. The finest primroses I have ever seen were grown by Mr. P. Popp of Central Covington. They were in 5-inch pots and sold for 50 cents each retail. There were a few good "mums" left in the market and they brought good prices. They were mostly E. G. Hill and Christmas Eve.

There was a great demand for ferneries and small jardinières and the stock of suitable ferns was none too large. There has been a great call for this class of



CHRYSANTHEMUM JOHN E. LAGER.



CHRYSANTHEMUM J. H. TROY.

goods this fall. The growers could not get the plants to a suitable size to sell before it was ordered and had to go as it was.

The retail orders were mostly for cut flowers, very few baskets being made up.

Of bulb stock the valley sold poorly. There was but a limited stock in the market grown from this season's pips, with hardly any leaves. Roman hyacinths were more plentiful than in former seasons but good stock brought \$4 per 100 at wholesale. Freesia was to be seen in small quantities and sold readily.

One of Mr. Schwartz's greenhouses was partly destroyed by fire. P.

Chrysanthemum John E. Lager and J. H. Troy.

These two chrysanthemums were among those favored by the committee for certificates from the Chrysanthemum Society of America. The accompanying photographs show flowers that had been fully expanded for three weeks.

The varieties are equally robust in growth and habit, the leaves well up to the flowers. They grow three to four feet high in the bench. The first flowers were cut October 5. Apart from their earliness they possess excellent shipping qualities.

John H. Troy is a large globular flower, Japanese, white, the florets broad and of great substance. John E. Lager is a Japanese reflexed, rich golden yellow, the florets of medium width and good substance. F. L. A.

Short Hills, N. J.

Wild Flowers.

Now that quite a number of our native wild flowers are being used in quantity in our gardens it may be of value to some to have the benefit of my experience as to the proper time for transplanting the various species from their native haunts to the garden or nursery. It is very essential that these plants be lifted at the right time as otherwise failure is almost sure to result. As a general rule the proper time to transplant a hardy perennial is when it is dormant. Aquatics

should be gathered just as growth begins in spring or as it ceases in autumn, as when absolutely dormant they cannot be found.

The following may be handled at any time though the best results will be had if done in spring and fall, orchids excepted: *Chiogenes hispidula*, *Coptis trifolia*, *Galium* species, *Mitchella repens*, *Mitella media*, *M. diphylla*, *Parnassia caroliniana*, *Phlox divaricata*, *P. pilosa*, *P. subulata*, *Pyrola* species, *Smilacina trifoliata*, *Maianthemum bifolium*, *Tiarella cordifolia*, *Trientalis americana*, *Calla palustris*, *Caltha palustris*, *Drosera rotundifolia* and other varieties of *drosera*, *Sarracenia purpurea*, *Aplectrum hyemale*, *Calopogon pulchellus*, *cyripedium* species, *goodyera* species, and most ferns except *Woodwardia virginica*, which is an aquatic species, growing where at some seasons the water is too deep for it to be gotten at. Its proper season is May and autumn.

The following can only be handled successfully at the time I indicate; the stems decay entirely later, and they grow all winter: *Amenonella thalictroides*, April 20 to May 30; *Isopyrum biternatum* the same. *Anemone nemorosa* (after flowering) May 30 to August 15, *Arisæma dracontium* (after flowering) June 1 to September 10; *A. triphyllum* the same. *Claytonia virginica* (after flowering) April 20 to May 15. *Dentaria diphylla* and *D. laciniata* (after flowering) May 1 to June 30. *Dicentra canadensis*, April 1-10 and from May 15 to winter. *Eriogonum bulbosum*, May 15 to June 15. *Erythronium americanum*, May 10 to June 10. *Hypoxis erecta*, June 1 to October 1. *Panax trifolium*, May 10 to June 30. *Podophyllum peltatum*, April 1-10, June 1 to end of year. *Ranunculus fascicularis*, May 20 to September 1. *Sanguinaria canadensis*, April 1-10, June 1 to end of year. *Gentiana crinita* and *G. serrata*, May 15 to June 15 (annual). *Trillium grandiflorum*, *T. erectum* and *T. cernuum*, May 15 to August 30.

Bog plants: *Sagittaria variabilis* and *S. heterophylla*, May 1 to June 1, September and October.

Aquatics: *Brasenia peltata*, May 10 to July 1, September and October; *Nuphar*

advena the same. *Nymphaea reniformis* (tuberosa) May 1 to July 1, September and October. *Pontederia cordata*, May 1 to June 20, October.

Orchids: *Pogonia ophioglossoides*, after flowering, May 20 to close of year.

Liliums: *L. canadense*, and *L. superbum*, August to October, never in spring; *L. philadelphicum*, July 15 to October, never in spring.

The latest dates named are generally the latest at which a plant of the species named may be found. Most of them will have disappeared ten or fifteen days before. The periods named are when the plants are dormant or nearly so and they may then be lifted, and shipped if necessary, with no more risk than with other plants. W. A. BROTHERTON.

Rochester, Mich.

Patents Recently Granted.

Flower holder, Ella E. Bailey, Baltimore; Transplanter for trees or plants, H. Balbridge, Los Angeles, Cal.; Caterpillar trap, T. D. Noone, Camden, N. J.; Lawn mower, L. C. Stark, Appleton, Wis.; Lawn mower, W. G. Vernon, Philadelphia; Apparatus for growing plants, W. Oliver, Alamo, Mich.; Tree transplanter, J. Santmier, Buffalo; Vire fastener, E. J. Fuller, Sheridan, N. Y.; Spraying nozzle, J. Steel and J. Busha, Pittsburgh; Means for promoting vegetation, S. Lemstrom, Helsingfors, Finland; Protecting growing vegetables from night frosts, S. Lemstrom, Helsingfors, Finland; Lawn sprinkler, C. Widrig, Mt. Clemens, Mich.; Apparatus for transplanting plants, L. Humbarger, Columbia City, Ind.; Lawn mower, S. P. Graham, Detroit; Garden hoe, J. H. Andre, Lockwood, N. Y.; Plant holder, S. W. Babbitt, Meriden, Conn.; Fruit tree support, L. W. Hihn, San Jose, Cal.; Lawn mower, G. P. Kirsch, Decatur, Ind.; Machine for counting grape cuttings, F. M. Kidder, Fredonia, N. Y.; Appliance for and new method of planting seeds, M. Weber, J. Perschl and P. Weber, Los Angeles, Cal.; Vine fastener, T. Flesher, Dunkirk, N. Y.; Flower holder for florists' use, S. M. Flint, Worcester, N. Y.; Lawn clipper, E. W. McGuire, Richmond, Ind.

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cure insertion in the issue for the following Saturday.

Address THE AMERICAN FLORIST CO., Chicago.

ALWAYS GIVE THE STATE.—We have received a communication dated "Dexter, December 11, 1894." As there are 22 postoffices named "Dexter" in the U. S. Postal Guide, the address given is quite valueless. We mention this case for the reason that it is not an isolated one. Hardly a day passes that we do not receive addresses equally vague. In some cases we get the state from the postmark on the envelope, when this happens to be legible—which is not often. But omitting the state is not the worst. Not infrequently we receive an envelope enclosing simply a dollar bill, without a scrap of information as to where it came from. These cause us much annoyance, and in a few cases that we were unable to trace out we suppose the senders have condemned us as swindlers because we did not send them the paper.

"A LADY VISITOR" sends us a communication in which she severely criticises the appearance of, and the language used in her hearing by, the employees at a greenhouse establishment recently visited by her. But she goes too far in assuming that these men were representative of florists' employees as a class. While it is possible that some employers are not as particular as they should be, it certainly is a fact that the majority thoroughly understand the importance of having in their employ only men of gentlemanly instincts. As to appearance, a greenhouse hand can not, from the nature of his work, be always as neat as might be desirable, but "lady visitor" will find more true gentlemen in working overalls than in more showy raiment.

MR. C. W. NORTHRUP, Lagrange, Ill., sends us a bunch of violets that would be hard to beat. Mr. Northrup's violets have long held a high place in the Chicago market, and he is evidently still secure in his position as the crack grower of this flower.

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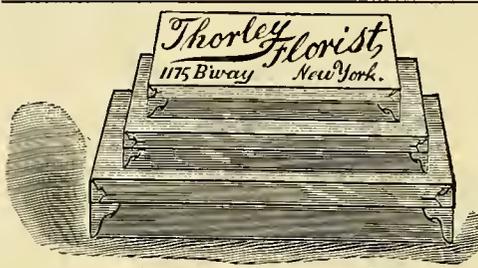
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64 & 66 Wabash Ave.,

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The boxes as they appear when set up for use.

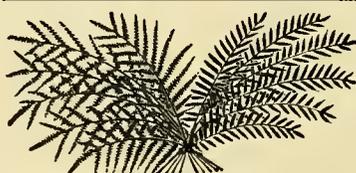
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" Mermets, Hoste, Cusin.....	6.00@12.00
" Bride, Watteville, Bridesmaid.....	6.00@15.00
" La France.....	4.00@15.00
" Testout.....	10.00@20.00
" Mrs. Whitney, Kaiserin.....	11.00@20.00
" Meteor.....	10.00@25.00
" Beauty.....	50.00@125.00
" " seconds.....	5.00@25.00
" Hybrids.....	25.00@75.00
Carnations.....	2.00@3.00
" fancy.....	3.00@6.00
Violets.....	50@1.50
Valley.....	2.00@4.00
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BOSTON, Dec. 24.

Roses, Mermets, Brides.....	6.00@15.00
" Niphotos, Perle.....	6.00@10.00
" Bon Silene, Gontler.....	3.00@5.00
" Bridesmaid, Testout.....	8.00@15.00
" Meteor.....	12.00@25.00
" Beauty.....	50.00@75.00
" Magna Charta.....	50.00
Carnations.....	2.00@3.00
" fancy.....	4.00@5.00
Valley.....	3.00@4.00
Hyacinths, narcissus.....	2.00@3.00
Harrisll callas.....	10.00@15.00
Violets.....	.75@1.50
Adiantum.....	1.00
Smilax.....	10.00@12.50
Asparagus.....	50.00

PHILADELPHIA, Dec. 24.

Roses, small.....	8.00@10.00
" large teas.....	10.00@15.00
" Beauties.....	35.00@50.00
" Brunners.....	60.00@75.00
Carnations.....	3.00@5.00
Smilax.....	12.00@15.00
Asparagus.....	25.00@50.00
Violets, double.....	1.50@2.00
" single, per 100 bunches.....	\$1.00
Valley.....	4.00
Cattleyas.....	40.00@50.00
Cypridiums.....	15.00@20.00
Adiantum.....	1.00@1.25
Smilax.....	12.00@15.00

CHICAGO, Dec. 27.

Roses, Beauty, selected.....	60.00@100.00
" Testout, Bridesmaids.....	15.00@18.00
" Meteor, La France, Albany.....	12.00@16.00
" Bride, Mermets.....	12.00@16.00
" Perle, Niphotos, Gontler.....	7.00@12.00
" Mixed.....	10.00@12.00
Carnations, long common.....	2.00@3.00
" fancy.....	3.00@6.00
" short.....	1.00@2.00
Valley.....	5.00@6.00
Romans.....	4.00@5.00
Violets.....	2.00@2.50
Harrisll.....	12.00@15.00
Orchids, cattleyas.....	25.00
" cypridiums.....	50.00
Smilax.....	12.00@15.00
Adiantum.....	1.00
Asparagus.....	50.00@100.00

BUFFALO, Dec. 25.

Roses, Beauties.....	75.00@100.00
" Mermets, Bride.....	10.00@15.00
" Bridesmaid.....	15.00@20.00
" Meteor.....	15.00@25.00
" Perles, Hoste, Cusin.....	10.00@12.00
Callas, Harrisll.....	15.00
Carnations, long.....	2.50@3.00
" short.....	1.10@1.50
" Daybreak.....	3.00@4.00
Valley.....	4.00@5.00
Romans.....	3.00@4.00
Violets.....	1.50@2.50
Adiantum.....	1.25@1.50
Smilax.....	15.00@20.00

GEORGE A. SUTHERLAND,
 Successor to PECK & SUTHERLAND,
 Successors to WM. J. STEWART.
Cut Flowers and Florists' Supplies
WHOLESALE.
 67 Bromfield St., BOSTON, MASS.
 New England Agent for the GREAT ANTIPEST.

WHOLESALE
FLORISTS
 JOBBERS IN
 FLORISTS'
 SUPPLIES,
 FLORISTS'
 VASES.
 METS,
 BRIDES,
 GONTIERS,
 CARNATIONS,
 ALWAYS ON HAND.
 1 Music Hall Place,
 BOSTON, MASS.
 HORTICULTURAL AUCTIONEERS.

THE LEADING FAVORITES:
American Beauty,
Bridesmaid,
Meteor,
Testout,
 And all other desirable roses, grown especially for first-class trade.

BURNS & RAYNOR,
 Wholesale Florists,
 49 West 28th St., NEW YORK.

THOS. YOUNG, Jr.,
Cut Flowers,
WHOLESALE,
 43 W. 28th St., NEW YORK.

WALTER F. SHERIDAN,
 WHOLESALE
FLORIST,
 32 West 30th Street, NEW YORK.

Roses Shipped to all points. Price list on application.

Edward C. Horan,
 34 W. 29th Street, NEW YORK,
WHOLESALE • FLORIST.

Careful Shipping to all parts of the country.
 Price list on application.

JAMES PURDY,
 WHOLESALE DEALER IN
CUT • FLOWERS,
 57 W. 30th St., NEW YORK.

JOHN YOUNG,
FINE ROSES
 WHOLESALE,
 53 West 30th St., NEW YORK.

THEO. ROEHRS,
 WHOLESALE
FLORIST,
 111 WEST 30TH STREET,
 NEW YORK CITY.
 Established 1879.

FRANK MILLANG,
WHOLESALE FLORIST
 408 East 34th Street,
 Cut Flower Exchange. NEW YORK.
 ESTABLISHED 1884.

The Seed Trade.

AM. SEED TRADE ASSOCIATION.

D. I. BUSHNELL, St. Louis, president; S. E. HIGGINS Toronto, 1st vice-president; A. L. HOEN, 114 Chambers street, New York, secretary and treasurer.

THE EXECUTIVE COMMITTEE of the American Seed Trade Association will meet at the Cosmopolitan Hotel, New York, on Friday, January 4, 1895, at 10 a. m.

Catalogues Received.

Sunset Seed and Plant Co., San Francisco, fruit trees; C. S. Harrison, Weeping Water, Neb., Rocky Mountain evergreens; F. Harteldes & Co., Lawrence, Kans., seeds; Wm. Swayne, Kennett Square, Pa., carnations; A. Blanc, Philadelphia, electrotypes of flowers, plants and shrubs; A. Blanc & Co., Philadelphia, new and rare plants; same, Japanese flower pots; same, sacaline; W. R. Sch mire, Avondale, Pa., carnations and coleus.

Greenhouse Building Association.

A German stock company has been organized on the building association plan for the purpose of selling land to and building greenhouses for gardeners, in a suburb of Berlin. The land is sold on the following conditions: The purchaser pays not less than one-tenth of the price in cash and furnishes proof that he has a like amount as a working capital for carrying on the business. The remainder of the price is to draw interest at 4%, secured by a life insurance policy to be deposited with the company. The policy expires with the party's 60th year, or at his death, in which event the company collects on the policy and turns the property over to the heirs free of debt.

News Notes.

SALEM, MASS.—Levi Dodge has purchased the greenhouse of W. S. Ward on Bridge street.

BUSTLETON, PA.—Jas. T. Baker has added a new violet house 10x100, heated with hot water, and a pansy house 5x100.

GREENLAND, PA.—Jacob B. Weever has just completed two new houses, one a carnation house 24x70, the other a violet house, 10x70.

BALTIMORE, MD.—Matthew Richmond has recently gone into the florist business on Erdman avenue, between Belair and Harford roads.

LANSING, MICH.—H. F. Dew has sold his Capitol avenue greenhouses and will remove to Albion, Mich., where he will start a new business.

MILWAUKEE, WIS.—Messrs. W. H. Ellis and C. C. Pollworth have resigned their positions as secretary and treasurer of the Wisconsin Flower Exchange.

PARSIPPANY, N. J.—Harrison Quinby of the Meadow View Greenhouses has added four new houses to his plant, two 100x25 and two 25x10, making his total glass area 11,000 feet.

FALL RIVER, MASS.—Woodcock & Lannagan is the name of a new firm here. They have built one house 37x16 at 58 New Boston road, and will add more glass next spring.

TERRE HAUTE, IND.—Mrs. Sarah C. Deming has generously donated 50 acres of land to the city to be used as a public park, on condition that the park be improved within three years.

BRUNSWICK, GA.—C. S. Tait has retired from the florist business, having accepted a position with a local firm in another line, the same position that he held for 10 years prior to embarking in the florist trade.

WATKINS, N. Y.—Jas. Andrews has leased the old Frost greenhouse for a term of three years, and is now putting it in order for business. Another greenhouse of equal size will be erected early in the spring.

HINGHAM, MASS.—W. L. Bradley, the manufacturer of superphosphate whose name is familiar to every farmer and gardener in the land, died on the 15th inst. He owned large phosphate mines in North Carolina and Florida and was reputed to be a millionaire. Thirty years ago he was without a dollar. He leaves behind him an untarnished business record.

Blacktown Philosophy.

It am a mos' seryus mistake to s'pose dat jes stiekin flowahs in a wiah frame 'ticles de pahy to de name ob floral artist.

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

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant ads. not admitted under this head.

SITUATION WANTED—By competent florist, age 25, single. Best of references. Address FLORIST, care The Royal, 308 State St., Chicago.

SITUATION WANTED—By a first-class gardener or florist, age 22, 8 years' experience, sober and reliable; best of references. Address GARDENER, 706 Central Ave., Dover, N. H.

SITUATION WANTED—As all round florist; good propagator, growing roses, carnations, palms, ferns and general stock; single, 10 years' experience. Best of references. H, care American Florist.

SITUATION WANTED—By competent man as gardener in private place; understands all branches of gardening, building and laying out of grounds. Rose and grape culture a specialty. Address M. M., care American Florist.

SITUATION WANTED—By a competent gardener, S. German, 41, married; has experience in all branches of gardening; first-class references; can take charge about private or commercial place; Pennsylvania preferred. Address G. H., care Am. Florist.

WANTED—Agent, by one of the oldest Dutch bulb houses. Particulars and references, address BULL, care American Florist.

WANTED—Cut flower arranger to take charge of a cut flower department. Must be a fairly good maker-up, quick and energetic. Write, giving experience, references and wages wanted, and when can commence work, to SAMUEL L. MARSHALL, Penn. Ave. near Sixth St., Pittsburg, Pa.

WANTED—For vicinity of San Francisco, a thoroughly competent man to grow cut flowers, principally carnations, lilies and roses. Must well understand propagation, and take sole charge of 15,000 feet of glass. Best of references required as to reliability, honesty and sobriety. Address, stating wages expected and giving references, L. GETZ, 310 Market St., San Francisco, Cal.

FOR SALE CHEAP—Large second-hand florist's Ice Box, value about \$75. VAUGHAN'S SEED STORE, 88 State Street, Chicago.

FOR SALE CHEAP—Florist business, \$5000 a year, in Pueblo, Colorado. Best trade in the city. Apply to PUEBLO FLORAL CO., 325 W. 4th St., Pueblo, Colo.

FOR SALE—3000 lights of 8x10 A single thick glass. Will sell for \$1.00 per box f. o. b. Chicago. Make me an offer. Address MARSHALL, care American Florist, Chicago.

FOR SALE—Down combined steam boiler and pump, 4-horse power, 1½ inch suction, 15-inch discharge pipe; good repair. Cost new \$300; price \$150. Write for particulars. C. E. ALLEN, Brattleboro, Vt.

FOR SALE CHEAP—And on easy terms, on account of dissolution of partnership, one of the best paying florist's places in the center of Chicago. Two new houses 100x12 feet, stocked with bedding plants. Long lease. Address CONTRACTOR, care American Florist, Chicago.

FOR SALE—Having recently inherited some property in the Old Country which necessitates my going over there, I offer my entire business for sale, consisting of 25,000 to 30,000 square feet of glass with large house and store, fully stocked with roses, carnations, violets, palms, and general stock, together with a fine catalogue seed trade, spring bedding, bulb and cut flower trade. This is a grand opportunity for a party with capital, or to form a stock company, as there is plenty of scope to develop an immense home trade. For further particulars inquire of THOS. T. HOLTON, 81 South St., Morristown, N. J.

"HARD TIMES" PALM COLLECTIONS. The hard times are going and so are the palms, but we can still supply 17, 3 and 4-in. palms for \$3 and \$1 for \$5 each (regular price \$8). These comprise the best varieties, including Lantanas, Kentias. JUST WHAT THE RETAILER WANTS.

WILLIAMS & SONS CO., Babvsh, Ill.
Mention American Florist.

FOR SALE

MY ENTIRE

Horticultural Establishment.

One of the largest in this country devoted entirely to the culture of

CUT FLOWERS.

Situated on Jersey City Heights, N. J., within 20 minutes of New York City by steam railroad every half hour, or within 30 minutes by electric cars every 3 minutes. For convenience to the Metropolis, it will be seen the location is unsurpassed.

The "Plant" covers 3½ acres of land, on which are 26 Greenhouses, (Over 50,000 Square feet of Glass),

All at this time well stocked with 30,000 Carnations, 15,000 Roses, all of the leading forcing sorts, as well as a large miscellaneous stock, in fine condition.

The houses, all of the most modern construction, are heated by the Hitchings Co. and The Lord M'g Co.'s systems of Hot Water. There are also 250 Hot Bed Sash, 50,000 Flower Pots, and large packing rooms, potting sheds, wagons, harness, in fact all essentials that go to make up a Complete Floral Establishment.

There is also a comfortable dwelling house of 8 rooms, and large barn and cow stable. A large windmill assures at all times a full supply of city water. While the "plant" here described is on 3½ acres, I will also sell, if desired, an adjoining plot of 6 acres.

For price, terms or more detailed information, please call on, or write to

JOHN REID, Florist,

BETWEEN JACKSON AND BERGEN AVES.,
NEAR BIDWELL AVE.,

JERSEY CITY HEIGHTS, N. J.



Wisconsin Flower Exchange Wholesale

Consignments of First-Class Flowers SOLICITED.

Account of sales, accompanied with check, rendered weekly.

FANCY STOCK AT GOOD PRICES THE MOST DESIRABLE.

A few hundred Bulbs on hand for Easter forcing, of *Lilium Auratum*, *Speciosum*, *Rubrum* and *Album*; also few *Valley*. Will sell at a bargain to close out.

WISCONSIN FLOWER EXCHANGE, 468 Milwaukee Street, MILWAUKEE, WIS.

How to Grow Cut Flowers.

By M. A. HUNT.

A PRACTICAL TREATISE ON
THE CULTIVATION OF THE ROSE,
CARNATION, CHRYSANTHEMUM,
AND OTHER FLOWERING PLANTS FOR

.. CUT FLOWERS ..

Also, GREENHOUSE CONSTRUCTION, illustrated. Handsomely bound in Cloth, and sent to any address upon receipt of \$2.00.

ESTATE OF M. A. HUNT, Terre Haute, Ind.

FOR A
PROFITABLE GARDEN
SOW
BUIST'S
PRIZE MEDAL
SEEDS

Our Garden Guide, 160 pages, also Market Gardeners' Quarterly, which gives our Wholesale Prices to Gardeners, mailed free.

ROBERT BUIST,
Seed Grower, PHILADELPHIA, PA.

FROM JAPAN. — Bulbs, Seeds, Trees, Palms, Etc.
FROM AUSTRALIA. — Argemone, Palm Seeds, Etc.
FROM CALIFORNIA. — Bulbs, Seeds, Trees, Etc.

Orders looked up to Dec. 1 for *Cyrea Revoluta* Stems. Send for our new and interesting Catalogue '94-'95.

H. H. BERGER & CO.,
(Established 1878) SAN FRANCISCO, CAL.
Oldest and most reliable Import house.

FOR THE SEED TRADE

ONION SETS, SWEET PEAS

Vaughan's Seed Store,
New York: 26 Barclay Street. CHICAGO: 146-48 W. Washington St.

AND A GENERAL LINE OF FLOWER SEEDS, GARDEN TOOLS, ETC.

SWEET PEAS
FOR FLORISTS' USE.

Can recommend the following. QUEEN OF ENGLAND, pure white, oz. 15c; lb. 85c. BLANCHE PERRY, pink oz. 15c; lb. 75c. BEDFORD'S NEW MIXED, oz. 15c; lb. 6c. New crop seed now to hand. Mail orders promptly filled. The above prices include postage. We pay the mailing. G. C. WATSON, Philadelphia, Pa.
Seeds, Bulbs and Plants (Wholesale only), 1025 Arch St.

Cox Seed & Plant Co.
SAN FRANCISCO, CAL.,
Seed Growers
AND NURSERYMEN.

Contract Price List on application. . . .

Bouquet Greens, Mistletoe,
LILY OF THE VALLEY
(BEST GERMAN PIPS)

Choice Flower Seeds for Florists. Write for prices.

HERRMANN'S SEED STORE,
413 EAST 34TH STREET,
Near Long Island Ferry, NEW YORK.

BULBS.
Hulsebosch Bros.
ENGLEWOOD, N. J.
SELL ALL KINDS CHEAP.
Mention American Florist.

WE SELL SEEDS
Florists' Flower Seeds and Sweet Peas a specialty. Highest quality. Special prices

WEEBER & DON,
Seed Merchants and Growers.
114 Chambers Street, NEW YORK.

READY NOW.
Black Calla Bulbs
Extra size, \$10.00 per 100,
CASH WITH ORDER.
CHAS. SCHWABE,
404 E. 34th Street, NEW YORK.
Mention American Florist.

SOMETHING OF INTEREST
TO
Market Gardeners and Truckers
to be had for the asking. Write now for it.
Address **JOHNSON & STOKES, Seedsmen,**
217 & 219 Market St., Philadelphia, Pa.

Groton, Mass.

Groton is a grand old place abounding in beautiful scenery, stately residences and elm shaded avenues, complacent and dignified, as becomes a typical Massachusetts town possessed of a proud history. Groton now claims a new distinction, one of which her old revolutionary heroes never dreamt, but nevertheless worthy of record in these days of horticultural activity. It is the American home of the Lady Campbell violet. What this means only the grower who has felt the full effects of the much dreaded violet disease can fully appreciate. When Mr. H. Huebner announced a couple of years ago that he had found in the new violet a variety that seemed to have the vigor and constitution necessary to withstand the violet disease which was making such havoc among the growers of Marie Louise much interest and considerable incredulity were manifested. To-day the best proof of Mr. Huebner's claims is found in the splendid showing made by the Lady Campbell as seen growing in his houses.

His large house contains between twenty-five hundred and three thousand plants, and they are a sight worth seeing. The plants are big clumps of strong healthy foliage, and they are profusely covered with big long stemmed blooms, many of which come not far from the oft claimed, but seldom attained, size of a silver dollar. The recently noticed trouble known as "curly leaf," in which the edges of the foliage assume a scorched appearance, as though scalded by steam or hot water, manifests itself occasionally through the beds, but of the regulation "violet disease" there appears not a trace, a fact that would be of little importance if it were not that at every trial in the same houses Marie Louise has proved a complete failure.

The single violet, The Czar, is grown here in considerable quantity. Mr. Huebner has, in addition, some twenty varieties of violets, most of them imported, under trial in frames and houses. Carnations are looking very fine, especially such varieties as Scott, Hector, Daybreak and Brutus. Cartledge does poorly, and New Jersey is badly rusted. A boys' seminary is located in Groton. The lads are all sons of wealthy families and are good customers for flowers in a small way. Mr. Huebner has introduced a novel plan in dealing with them which may be of value as a suggestion to retail florists similarly situated. A boy selects any plant as it stands in the bed, such as a carnation or violet, which for a certain price becomes his exclusive property, and he is at liberty to go in and cut the blooms from it as they appear. A tag with the name of the owner is attached to each plant so disposed of, and the plan is evidently very popular judging by the number of tags seen.

PROVIDENCE, R. I.—Mr. Patrick Sweeney's greenhouses were destroyed by fire December 24. Loss about \$4,000.

TRUMBULL, CONN.—The large greenhouses of C. P. Noyes were partially destroyed by fire on the morning of December 24. Many valuable plants were ruined.

TARRYTOWN, N. Y.—Lewis Nash, 74 years old, a gardener employed at Lyndhurst, Helen Gould's summer home at Tarrytown, was instantly killed Saturday night between Irvington and Tarrytown by being struck by a train on the New York Central Railroad while walking on the track.

NEW GANNA "GLARA PELEY"

A seedling from Mme. Crozy, same size flower but broader petals; color, even red, darker than its parent, without yellow edge; very stout stem and broad, waxy green foliage.

Mr. Fred. Kanst, manager of South Park, Chicago, and who was a judge of Cannas at the World's Fair, kindly tried some of my seedling Cannas on the park grounds last summer, and wrote to me in September: "Your Canna No. 1 is really a fine one. I have shown it to several different parties and they all agree that it is very good. If you get a stock of this one you ought to be able to do something with it."

I have not a large stock of it, about 400 dormant roots, I offer half of it to the trade at \$2.00 each or three for \$5.00. It may seem high, but when I think that every one of them will make at least 15 next fall, I wish I could keep them longer. And I make the agreement not to sell any more than these 200 this year without privately notifying the purchasers of this lot.

CASH WITH ORDER.

The roots will be sent by Mail or by Express according to purchaser's choice. No extra charge by mail.

A. PELEY, Fort Lee, Bergen Co., N. J.

CYCAS REVOLUTA.

Orders booked now for fresh imported stems, fronds and roots cut off; best long-leaved variety. Delivery Feb. 1st to April. Cultivated Cycas always on hand, rooted and well established

Lil. Auratum, Spec. Rubrum and Album, Etc.
Iris Kämpferi, in 100 choice varieties.
Japanese Maples, in best varieties.
Camellias, Paeonies, Tree Ferns, Raphis, Etc.
Araucaria excelsa, choice cultivated stock at lowest prices.

For general Japanese stock apply to

F. Gonzalez & Co.,

303 to 312 Wayne St., SAN FRANCISCO, CAL.

CHOICE SEEDS.

PETUNIA GRAND. FIM. FL. PL.

The largest and finest strain of double fringed and mottled Petunias to be had. All who see these Petunias say they are finest they ever saw. Extra.

VERBENA GRANDIFLORA.

This improved strain of Mammoth Verbenas gives perfect satisfaction to my many customers, and is justly claimed the finest in cultivation; flowers an inch in diameter, in extra large trusses, of finest colors.

CYCLAMEN GIGANTEUM.

A magnificent collection of the finest giant flowering varieties; largest flowers and best colors.

Each per trade pkt 25c; 3 pkts. 60c; 6 pkts. \$1.00. I will here thank my florist friends for the many letters of commendation received during the past year.

JOHN F. RUPP, Shiremanstown, Pa.

PALMS CHRYSANTHEMUMS CARNATIONS ORCHIDS & ROSES

Prices on application.

EDWIN LONSDALE,

WYNDMOOR, near Chestnut Hill, PHILA., PA.

WANTED

A man who understands the manufacture of FLORISTS Wire Work.

Wisconsin Flower Exchange,

468 MILWAUKEE, ST.,

... MILWAUKEE, WIS.

Clematis Jackmanni.

One year, nice dormant stock, for potting up for Spring sales, \$2.00 per dozen; \$12.00 per 100. All home grown.

... P. A. BALLER, Bloomington, Ill.

Stock plants Verbenas, first-class colors, \$2 per 100
Stock plants Bultercup Carnations, fine plants, 6 to 8 cts.

Gladioli, mixed, light shades predominate, \$1 per 100. Small bulbs of above for florists' growing.

McCREA & COLE, Battle Creek, Mich.

The "Big Four"

CARNATIONS:

WM. SCOTT.
ALBERTINI.
DAYBREAK.
McGOWAN.

Grow the "Big Four"
And Get "On Top."

Prices: Per 100	Per 1000	Selected, Healthy, well Rooted Cuttings.
Scott, . . .	\$3.00 \$25.00	
Albertini . . .	3.00 25.00	
Daybreak . . .	2.50 20.00	
McGowan..	2.00 15.00	

Terms Cash with Order or before Shipment. If wanted C. O. D. remit one-third.

ALEX. McBRIDE,

ALPLAUS, N. Y.

Booking Orders NOW

— FOR —

WILLIAM SCOTT, Per 100 Per 1000
\$3.00 \$25.00

Strong HEALTHY plants FROM THE SOIL for early SPRING DELIVERY.

MRS. FISHER, For Summer Blooming Ready NOW.

Per 100, \$2.00. Per 1000, \$15.00.

Send for price list of other

NEW AND TESTED CARNATIONS.

FISHER & AIRD,

Norfolk Co. ELLIS, MASS.

When ready to plant Verbenas seeds The Progressive type will meet your needs; The kind that spans the silver half And makes progressive Florists laugh.

New crop now ready and better than ever. Only the very best XXX seed offered. 1/4 oz. 60 cts.; 1/2 oz. \$1.00; trial packet 10 cts. In stamps.

Double Petunia Seed, hand hybridized, Dreer's strain, 500 seeds 50 cts.; 1000 seeds \$1.00.

Single Fringed Petunia Seeds, Dreer's strain and California Glatts blended, saved from the most magnificent showy varieties in cultivation, 500 seeds 30 cts.; 1000 seeds 50 cts.

Mammoth Double White Scabiosa Snowball, per trade packet 1/4 oz. 30 cts.; 1/2 oz. 35 cts.; oz. 60 cts.

A fine strain of Eckford's Sweet Peas, per oz. 10 cts.; per lb. 50 cts. All postpaid

Snow Crest Daisies, small plants, 2-inch, \$4 per 100.

Will have some splendid Novelties in our New Seedling Cannas, Verbenas, and Petunias, also a general list of small plants and rooted cuttings later.

Address, cash with order please.

J. C. GIBSON, WOODBURY, N. J.

CHITTY'S NEW PRIZE CARNATIONS For 1895.

ALASKA—The Best and purest white ever offered.

CORSAIR—The scarlet McGowan.

MAGNET—Beautiful magenta rose.

LITTLE GEM—The dwarf J. J. Harrison.

MINNIE COOK—Superb variegated sort.

See full page illustrated advertisement of above in American Florist December 1st and 8th.

FOR DESCRIPTIVE WHOLESALE PRICE LIST

ADDRESS **H. E. CHITTY,**
PATERSON, N. J.

WANTED!

A good, free blooming, healthy, vigorous **Yellow Carnation.** Flowers must be perfect, of fair size and borne on long, stiff stems. There must be plenty of pips, and these easily rooted.

AND HERE IT IS—Any one of the following will fill the bill:

ELDORADO—Pure yellow ground edged with light pink. Picotee marking.

KITTY CLOVER—Light yellow striped red with a little white.

EULALIE—Yellow ground penciled with pink.

We also offer this year

PRINCESS BONNIE—A beautiful pink variegated flower of large size; and
DAISY BELL—A white, variegated similar to Chester Pride, but very much larger flower.

Send for general price list of both Carnations and Coleus.

W. R. SHELMIRE,
AVONDALE, Chester Co., PA.

THE COTTAGE GARDENS, Queens, Long Island, N. Y.

WHOLESALE CARNATIONS.

New Carnations our Specialty

**FRED. DORNER & SON,
FLORISTS,**

LA FAYETTE, : : INDIANA.

CARNATIONS ROOTED CUTTINGS now ready, of desirable kinds for EARLY SUMMER BLOOMING.

Seedlings, Novelties and Standard sorts in season.
C. J. PENNOCK,
The Pines. KENNETT SQUARE, Chester Co., PA.

ROSES. ROSES.

Superior forcing stock. Strong field-grown. Budded low on Manetti. Extra heavy tops and roots. Better than imported; can depend on their reaching you in first-class condition. Our exhibit at Atlantic City received Honorable mention.

E. V. Hallock says: "Your field-grown Roses interested me very much. They are without doubt the finest grown roses in the world." "The finest and cheapest I ever bought."—*Wm. Falconer.*

HYBRID PERPETUAL, MOSS AND CLIMBING.

In Splendid Assortment of leading varieties. Also Extra fine stock of following will be offered at very low rates while surplus lasts:

TREE ROSES—Holland grown, well rooted, good, heavy tops, in fine assortment.

AMPELOPSIS VEITCHII—Extra, 3 to 4 feet.

ARISTOLOCHIA SIPHO—Strong well branched plants with heavy roots.

VIBURNUM PLICATUM (Japan Snowball)—2 feet.

CLEMATIS—Strong, 3 year, large flowered.

TUBEROSES—Pearl and Double Italian, fine bulbs.

CALADIUM ESCULENTUM—9 to 10, 7 to 9 and 5 to 7 inch.

Low prices on application. State quantities wanted.

OUR USUAL COMPLETE STOCK OF HARDY AND TENDER PLANTS, POT ROSES, SHRUBS, VINES, BULBS, FRUIT AND ORNAMENTAL TREES, GRAPE VINES, SMALL FRUITS, SEEDS, ETC.

41st YEAR. 1000 ACRES. 29 GREENHOUSES.

THE STORRS & HARRISON GO.,

PAINESVILLE, Lake Co., OHIO.

CATALOGUES AND PRICE LIST FREE.

CARNATIONS

Any way you want them, direct from the sand or as transplanted plants.

Varieties that **PAY** to grow, and Cuttings or Plants that **WILL** grow.

Better write to me, I'll do my share toward giving you good value for your money.

ALBERT M. HERR,
L. B. 496. **LANCASTER, PA.**

OPHELIA.

A large pink CARNATION, a little darker than Scott. Winner of Craig cup for best seedling at Philadelphia, in spring of '93; will be ready for distribution Feb. 1st, at \$10.00 per 100; \$80.00 per 1000. *Those wishing to list it please write.

MOST LEADING VARIETIES READY AT SAME TIME.

MRS. FISHER.

(For summer blooming), now ready, from soil, at \$12.50 per 1000.

LADY CAMPBELL VIOLET, Rooted Runners ready, at \$2.00 per 100; \$15.00 per 1000.

EDW. SWAYNE, Kennett Square, Pa.

50,000 Carnations. ROOTED CUTTINGS.

Ready January 1st. Positively no Rust. Send for Price List.

Wm. Swayne,
P. O. Box 226. **KENNETT SQUARE, PA.**

CARNATIONS.

Rooted Cuttings. Young Plants. Field-Grown Plants in season. Send for prices.

Geo. Hancock & Son, Grand Haven, Mich.

MAIL LOCK THE DOOR BEFORE THE HORSE IS STOLEN DO IT NOW.

JOHN G. ESLER, Sec'y, F. H. A., Saddle River, N. J.

Some Fine New Roses.

NEW CLIMBING POLYANTHA, CRIMSON RAMBLER, the best Novelty of the season. \$25.00 per 100; \$3.50 per 12.

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50,000 YOUNG ROSES, strong 2-inch pot plants now ready. \$20.00 per 1000; \$2.50 per 100; our selection. See Am. Florist Dec. 1 for price of large Roses and from open ground.

VIOLETS *Mar e Louise* { 2-inch pot plants well in
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Clean, healthy stock.

MERMETS, BRIDES, MME. WATTEVILLE,

Strong plants, from 3-inch pots, \$5 per 100.

BRIDESMAIDS, METEORS,

Strong plants. 3-inch pots, \$6 per 100.

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FOSTITE, A PERFECT REMEDY for

Mildew on Roses and Carnation Rust.

Joosten's Magazine Bellows, the best out.

Fostite, 25 lbs. \$2.00. Bellows, \$3.50. Cash with order. Sold by all dealers and by

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NEW AND OLD VARIETIES.

Good, healthy stock, well rooted, ready by January 1st, 1895.

Rooted Cuttings **GIANT DOUBLE ALYSSUM, VIOLETS, COLEUS, ETC.** Write for prices.

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Rooted Cuttings now ready, and orders booked for immediate or later delivery. Stock clean and strong. Daybreak, Uncle John, The Stuart, McGowan, Dorner and other leaders. Write for prices.

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	Each	Dozen
IVORY	15c.	\$1.50
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Orders booked now for rooted cuttings of Carnations.

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Chrysanthemum Etoile d'Or,

(single yellow daisy), plants from 3-in. pots, now ready. Stock limited.

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If you want any Field-Grown

Yellow "MUMS" for Christmas.

Send One, Two, Three or more Dollars to

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Will guarantee quantity will suit.

Coleus.

As fine a collection as can be found in the country.

ROOTED CUTTINGS GIANT DOUBLE ALYSSUM, &c.

Send for list of prices of Coleus and Carnations.

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Offers of nursery-grown TREES and SHRUBBERY, at low prices; trees to be from one to three inches in diameter; shrubs to be bushy, and not less than three feet high. Give lists of kinds, sizes and prices.

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Visitors who are continually arriving from all parts of the country express great surprise and pleasure at the magnitude and completeness of the exhibition contained in the 50 spacious greenhouses, in which are grown in great numbers and luxuriance nearly every variety of plant known to greenhouse cultivation.

Thousands of Orchids may be seen in bloom, and the forest of Tree Ferns, some of the specimens being a thousand years old, and the noteworthy collection of two hundred and thirty varieties of Palms, over a quarter of a million in number, the many houses of old, new and rare Decorative plants, together with the ferneries in which are grown half a million of Ferns, are something visitors will never regret or forget having seen. The public are always welcome, and are never importuned to purchase.

Our plant Catalogue will be issued in February and will be mailed to all patrons.

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100,000 VERBENAS. THE CHOICEST VARIETIES IN CULTIVATION.

Fine pot plants, \$2.50 per 100; \$20.00 per 1000. Rooted Cuttings, \$1.00 per 100; \$8.00 per 1000.

NO RUST OR MILDEW.

PACKED LIGHT, AND SATISFACTION GUARANTEED. SEND FOR CIRCULAR.

We are the Largest Growers of Verbenas in the country.

Our plants cannot be surpassed.

J. L. DILLON, Bloomsburg, Pa.

COLEUS.

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10 best Bedding kinds:

By mail, 60c. per 100;

By express 50c. per 100.

CASH WITH ORDER.

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ASTER SEED.

BEST STRAIN ON THE MARKET.

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Prices quoted to the trade on application. \$1.00 per large trade pkt. Quantity of seed limited.

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Tuberous Begonias.



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Medal Awarded at World's Fair. Finest Strain in the World.

SEED, choicest single and double, 50c. and \$1.00 each trade packet.

BULBS, single varieties from \$4.00 per 100 double " " 10.00 per 100

Special prices on large quantities. Send for Descriptive Illustrated Catalogue.

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Ampelopsis Veitchii.

5 to 7 feet.....\$8.00 per 100

4 to 5 feet..... 6.00 per 100

1 to 2 feet..... 3.00 per 100

CHARLES X LILA C. grown less than two feet high, from three to five branches, all well budded, at \$25.00 per hundred.

Klehm's Nurseries, Arlington Heights, Ill.

ROOTED CUTTINGS. Good Ones.

Verbenas, 23 varieties..... 80c. per 100; \$7.00 per 1000

Heliotrope, 6 varieties..... per doz. 20c

New Giant Alyssum and Lopezia..... " 20c

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Mexican Primroses and Ageratum..... " 20c

Coleus..... per 100 75c " 12c

Postage 1c. per dozen. Cash with the order.

I. L. Pillsbury, Galesburg, Ill

Foreign Notes.

Among chrysanthemums receiving certificates in England from the National Chrysanthemum Society were Niveus, The Queen, H. L. Sunderbruch and W. G. Newitt.

A most remarkable bi-generic hybrid orchid is *Epilaelia* × *Hardyana*. It was produced by crossing *Epidendrum ciliare* upon *Laelia* aneaps. The habit of the plant is similar to the epidendrum, as is the style of the flower scape. The flowers have sepals and petals of bluish white, tinted with rose on the lower halves; the base of the lip is bluish white, the tips of the side lobes and front lobe rich crimson purple. This is the first known hybrid produced from these genera.

Laelio-Cattleya Decia is one of the newest bi-generic orchids, recently receiving a first-class certificate from the Royal Horticultural Society. It is a cross between *Laelia Perrinii* and *Cattleya Dowiana aurea*. The sepals and petals are rosy lilac, silvery white at base and midrib; the interior of the tube of the lip is pale purple, with white veining, the front portion rich mauve purple. Another unique bi-generic hybrid, also receiving a first-class certificate, is *Phaio-Calanthe Sedeniana*. It is the result of a cross between *Phaius grandifolius* and *Calanthe Veitchii*. The flowers are creamy white tinted with pale rose, borne on a tall spike.

We are informed that at the funeral of President Carnot one Belgian florist sold in Paris blooms of *Odontoglossum crispum* to the value of 68,000 francs (\$13,600).

Serrastylis modesta is a new genus and species of orchid, discovered in 1893, and recently flowered in England. It is said to be near the brassias, and resembles in habit a small *Oncidium sarcodes*. The sepals and petals are reddish, edged with yellow, the lip white, with a few purple streaks. The flowers are arranged in a long, dense, drooping spike.

The annual exhibition of the society of Danish Gardeners was held in the Tivoli Gardens, Copenhagen, last September, and there were 50,000 paid admissions. The Tivoli is a large amusement park within the city to which admission is charged. The special attractions are concerts, comedies, pantomimes, etc., which are free within the gates when no special occasion draws the thousands. The florists of the larger cities were well represented and even the small hamlets had sent in their best. Pot grown plants were quite a feature as well as competitive bedding in the lawn.

The new green flowered chrysanthemum of which mention has been made lately is *Ethel Amsden*, a sport from *Vivian-Morel*. Singularly enough the same sport has appeared almost simultaneously in several widely separated localities.

A new variety of the bow string hemp, *Sansevieria Kirkii*, has been discovered in southeast Africa. According to the *Botanical Magazine* the broad strap-shaped spotted leaves are in tufts, and the peduncle bears a head of white flowers, each with a very long slender tube expanding into a limb, with six narrow reflexed segments about a quarter the length of the tube.

THE GREAT ANTIPEST.

For particulars, see next week.

R. W. CARMAN, GEN'L AGT.,
261 Amity Street, FLUSHING, Queens Co., N. Y.
Mention American Florist.

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Christmas. HOLIDAY STOCK, New Year.

ALL NEW GOODS SELECTED EXPRESSLY FOR THIS SEASON.

Flower Baskets, Imported and Domestic; Fern Dishes and Jardinieres in artistic patterns; Fancy Flower Pots and Pot Covers, Metal Wreaths, Doves and Cycas Leaves.

JUST THE GOODS EVERY FLORIST NEEDS.

Send for our Catalogue and compare prices before ordering elsewhere. You will find we are right in it this year.

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DEALERS IN FLORISTS' SUPPLIES,

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AGENTS FOR MYER & CO.'S STANDARD IRON PLANT STANDS.

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May have been made this century for Florists and Seedsmen. We didn't print all of them, but we'll keep right on, getting well into the millions, as more find out that we really make the best work in the country. Just write us; we've the cuts and the knowledge.

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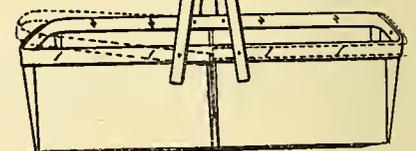
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New Catalogue (No. 4) containing over 1000 Ornamental Cuts for Florists' use, such as envelopes, letter-heads, bill-heads, cards, advices, floral designs, etc., at from 30c. and upward. Price of Catalogue 25c. (deducted from \$1.00 order).

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PANSY BASKET



Size 10-5-3 deep; bales adjusted which fold over when nested. \$12.00 per 1000 f. o. b. Cash with order.

L. T. SEAVER, PANSY KING,
and first producer of a Double Ruffie Pansy, now for sale—plants or seed. N. Somerville, Mass.

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1000 Barrels for Funeral Frames and Packing purposes.

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A GENERAL ASSORTMENT OF
FRUIT TREE STOCKS, MAHOGANY, CHERRY, SMALL EVERGREENS,
SUCH AS APPLE, PLUM, MAZZARD, QUINCE, FOREST TREES,
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ACME FOOD FOR

Vines, Plants, Fruit Trees, Flowers, and Greenhouse use.

One hundred pounds of this concentrated, soluble and odorless fertilizer contains as much food for plants as One Ton of sheep, cow or horse manure. Try a 5 pound box for \$1.00 on your Roses or Carnations, Smilax, etc. Send for descriptive circular. Can be applied dry or as a liquid; the dry food must not come in contact with the stem of plant.

Put up in boxes of 1, 2 1/2, and 5 lbs. each, with full directions; sells at 25c., 50c. and \$1.00 per box. Sample boxes, postpaid, 20c. Discount to the trade.

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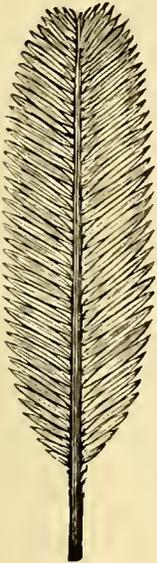
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Sago Palm Leaves are especially prepared for us with the most artistic skill. They look like fresh cut fronds and keep their appearance with the proper care for months. We sell according to size and quality at

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FLORISTS' SUPPLIES ONLY,
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GLASS HEADS, IN BLACK, WHITE AND VIOLET.
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To be applied with a bulb. The only putty made to work this way for greenhouse sash.

PUT UP IN 20 LB. CANS.

Has been used by florists in this city for years. Try it and you will use no other.

Read the following good report of our Green House Putty:

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We have been using the T. H. Nevin Co.'s Green House Putty for some time, and are pleased to recommend it to all those who wish a number one article. It has always given us perfect satisfaction. When you use this Green House Putty you will be sure of good results from same. Signed:

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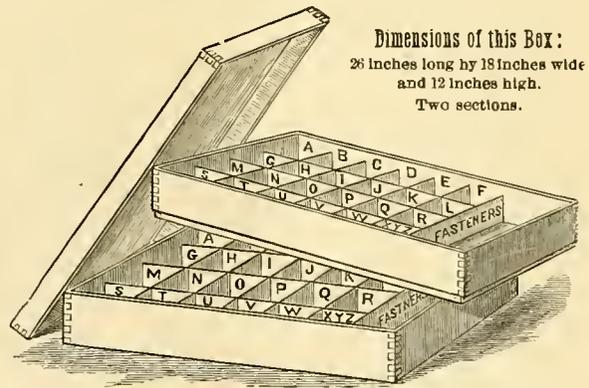
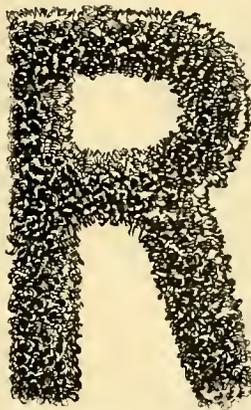
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We Manufacture all kinds of Flower Pots, etc.

**MAKING A SPECIALTY OF
Florist Standard Pots.**

Send for price list and samples (which will be sent free), and we know you will give us your order.

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Dimensions of this Box:
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and 12 inches high.
Two sections.

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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Made up, nailed or lock cornered; or material cut to size ready to be nailed up at destination.

Plant Stakes.

¼, 5-16, ⅜, ½, ⅝, ¾, and ⅞-inch square, cut to lengths wanted.

When asking prices state sizes of boxes or stakes and quantity wanted.

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GLASS
which is absolutely perfect for modern greenhouse construction.
ROCK BOTTOM PRICES.
Send for Estimates. Satisfaction Guaranteed
REED GLASS CO.,
65 Warren Street, and 46, 48 & 50 College Place,
NEW YORK CITY.

Give the Employees Credit.

Why are section-men who produce prize winners not recognized by the Florist's Club in a public way. It seems to me they should be, at any rate in the cut flower growing branch of the business.

As is well known the popular way on big places is to divide it in sections with a man in each. If the man, through his talents and ability produces flowers which win prizes in competition and command attention, why is he not recognized so as to enable him to advance? If you happen into a show when the flowers for exhibition are being set up and ask who grew them your large place proprietor will throw out his chest and rub the rotundity under it and calmly remark "I did," and proceed to receive the congratulations of the trade. The section-man toddles in after the judges are through and if the coveted blue ribbon is on the stuff he grew who congratulates him? Who gives him credit that he can use? No one, simply because there is no way of making it known to other employers than his, who very seldom does it.

I respectfully submit a suggestion which I think should find favor with section-men and employers alike. Let the Florists' Clubs call the section-man whose stuff wins before it and give him a certificate stating that the stuff for which his employer got a prize was grown in his section. This would not take away the glamor of a victory from his employer, and certainly would draw attention to the section-man's ability.

A SECTION MAN.

Greenhouse Building.

LANGHORNE, PENN.—Thos. B. Candy, one carnation house, 11 by 100 feet.

NORTH CENTERVILLE, R. I.—E. C. Baxter, large conservatory.

NEW BRITAIN, CONN.—W. H. Relyea, one commercial house.

SEYMORE, CONN.—F. L. Hotchkiss, one commercial house.

SEEKONK, R. I.—M. J. Leach, one commercial house, 18 by 84 feet.

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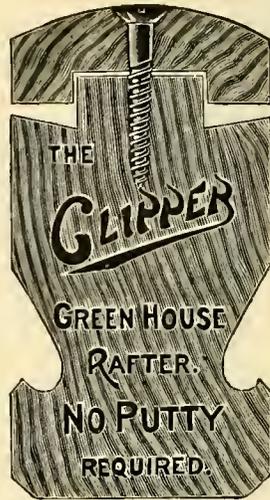
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Aren't you tired going through your houses two or three times a day year after year and lifting your venting sash one at a time and propping them up with sticks or pots, with a chance of having sash blown up and broken glass to pay for? If you are



We have got just the thing you need, the NEWEST and BEST thing out, "The New Departure" for about half the cost of the old style. Send for Descriptive Catalogue to

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A Different Letter Every Week

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I used the Clipper bar and used 16x20 double strength glass butted, and it makes a nice tight house very light. When in need of more will give you an order.
Yours truly,
DARWIN. P. SMITH.

Green-House Material.

The finest CLEAR CYPRESS used.

For circulars and estimates ADDRESS

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The Whilldin Pottery Company,

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BRANCH WAREHOUSES:

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A. H. HEWS & CO., N. Cambridge, Mass.

Announcement to Florists.

We desire to announce the dissolution of the firm of Sipfe Dopffel & Co., and to introduce to the trade its successor, The Syracuse Pottery Co., which will be under the management of William Dopffel and Conrad Breitschwerth. The business will be conducted as heretofore, except on a larger scale to meet the growing demand for our goods. We have accordingly enlarged our plant and capacity, and with unsurpassed facilities are now prepared to fill the largest order on short notice. Our latest improved machines are turning out the best and most serviceable flower pots in the market, and assuring you of our intention to lead in further improvements we solicit a continuance of your patronage in the belief that we can supply just what is needed at a price and in a manner satisfactory to all.
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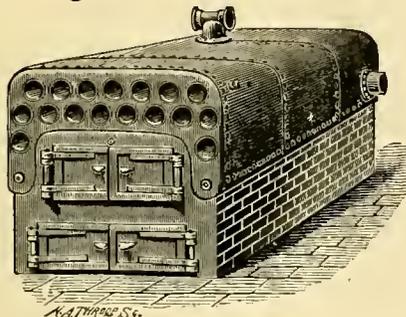
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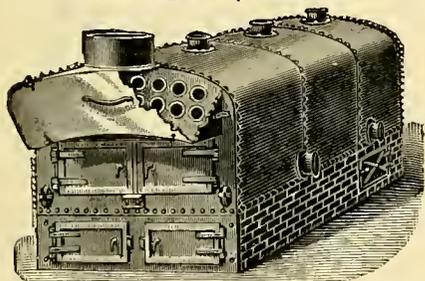
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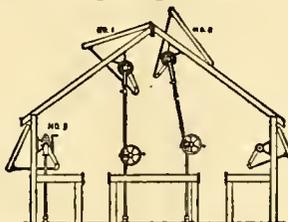
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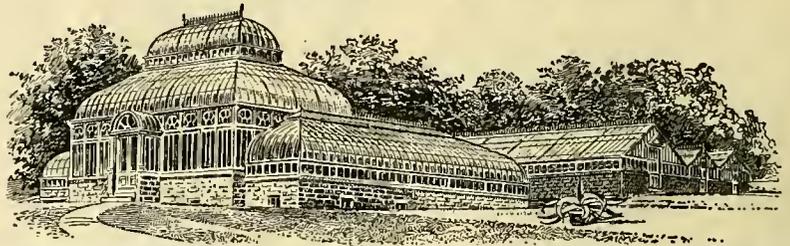
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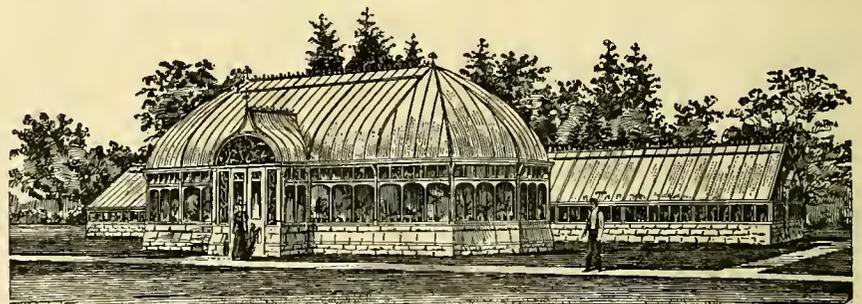
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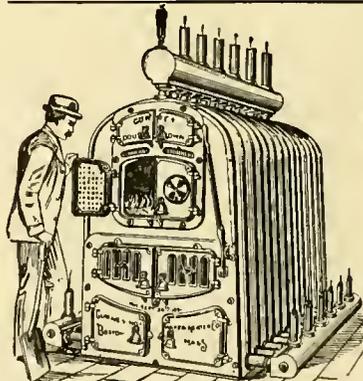
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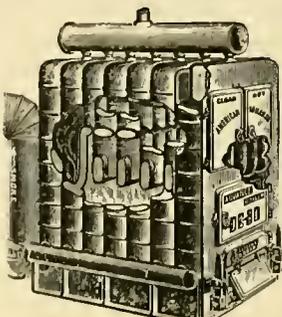
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Vol. X.

CHICAGO AND NEW YORK, JANUARY 5, 1895.

No. 344

THE AMERICAN FLORIST

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Entered as Second-Class Mail Matter.

PUBLISHED EVERY SATURDAY BY

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AMERICAN FLORIST COMPANY,
P. O. Drawer 164, CHICAGO.

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SOCIETY OF AMERICAN FLORISTS.

EDWIN LONSDALE, Chestnut Hill, Philadelphia, president; E. C. REINEMAN, Allegheny City, Pa., vice-president; W. M. J. STEWART, Boston, secretary; H. B. BEATTY, Oil City, Pa., treasurer. The 11th annual meeting will be held at Pittsburg, Pa., August, 1895.

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PAWTUCKET, R. I.—Alonzo Vose has just completed a 100 foot greenhouse.

WORCESTER, MASS.—C. C. Kenyon, formerly with F. S. Platt of New Haven has bought out the retail flower store of N. J. Herrick at 301 Main street.

READING, PA.—The thirty-sixth annual meeting of the State Horticultural Association will be held in this city January 15 and 16. The program has been issued and copies may be had by addressing the secretary, E. B. Engle, Waynesboro, Pa.

ST. JOHN, N. B.—The St. John Horticultural Association is in a very prosperous condition. A large greenhouse has been erected on the public grounds, and two very successful flower shows have been held during the past fall. Mr. C. G. Knott is superintendent and gardener. Horticulture is making rapid strides in this section, and the florist trade shows evidences of great prosperity. The holiday trade was unusually brisk, and the season starts out with most encouraging prospects.

THE CHRISTMAS TRADE.

Reports From All Sections.

Below we print replies to inquiries addressed by us to many different cities as to first, how sales compared with last year; second, how retail prices compared; third, whether supply was equal to demand; fourth, how quality compared with last year; fifth, whether there was any marked increase in the call for any special flower; sixth, whether any interesting peculiarity was noted in the trade this year and not covered by our inquiries. Reports of the trade in most of the larger cities appeared in our last issue.

DELAWARE, O.—Increase of about 35%. Not enough roses and carnations. Increased call for holly, palms and pot plants.

NEW ORLEANS, LA.—Very large increase. Retail prices same as last year. Supply good. Quality fully as good. Increased call for ferns and palms.

LYNN, MASS.—A slight increase. Supply short. Increased call for small palms, ferns and rubbers. Christmas greens were very freely used this year.

EVANSVILLE, IND.—About the same. Retail prices somewhat better. Supply good. Quality about the same as last year. The first and last call was for roses.

WILMINGTON, DEL.—Up to the average. Retail same. Supply short. Quality about same as last year, probably better on carnations and violets. Increased call for fern dishes.

DAVENPORT, IA.—A slight increase. Retail prices about the same as last year. Supply hardly equal to the demand. Owing to cloudy weather quality was not so good as last year.

BLOOMINGTON, ILL.—An increase of about 20%. Retail prices ruled about the same as last year. Supply not quite equal to demand. Quality about as usual at the season. Increased call for carnations.

CLEVELAND, O.—About the same. Retail prices a little lower. Short of colored roses and carnations. Quality about equal to last year, except violets which were better. Roses, carnations and violets were as usual in greatest demand.

MILWAUKEE, WIS.—An increase of about 25%. Retail prices a trifle higher on flowers, about the same on greens. Supply somewhat short. Quality fully equal to last year except on some roses. But few orders were placed in advance.

ELMIRA, N. Y.—About the same. Retail prices lower. Supply not equal to de-

mand. Quality better. Increased call for violets and carnations. Flowers for churches in great demand. Large call for small and medium sized palms and blooming plants.

FT. WAYNE, IND.—Increase of 25%. Retail prices about same as last year. Supply good except roses and carnations. Quality not quite so good. Increased call for roses. No call for bulb stuff. Holly sold well, considering the quality which was poor.

ST. PAUL, MINN.—A very large increase. Retail prices a trifle higher. Supply nearly equal to demand. Quality better. Increased call for violets and carnations. An unusually brisk trade in greens, also in potted plants, such as palms, Harrisii, cyclamens, azaleas and ferns.

PITTSBURG, PA.—An increase of 25%. Retail prices about the same as last year; in some flowers a little lower. Supply was ample with the exception of carnations. Eastern flowers not so good in quality, local stock much superior. An increase in the call for carnations.

KANSAS CITY, Mo.—An increase of 25%. Retail prices much better. Supply just about equal to demand. Quality good. Marked increase in the call for American Beauties, violets and valley. Increased demand for palms, azaleas and all plants in bloom. Business in general much better.

PATERSON, N. J.—Increase of about 10%. Retail prices about same as last year. Supply fully up to demand but sold quite close. Quality fully up to the standard. Increased call for carnations. Very largely increased demand for holly, a good quality of which sold well at good prices.

PEORIA, ILL.—About 25% greater. Retail prices lower, caused by cutting of prices early in the fall. Supply of scarlet carnations was short. Quality much finer, especially carnations. There was a greater demand for holly and pot plants. Bouquets and baskets not called for. Bulb stuff sold well.

TAUNTON, MASS.—Increase of about 10%. Retail prices better. Supply short. Greater call for carnations. Last year, owing to sharp competition, carnations retailed at 35 cents a dozen. This year the price was 50 cents, and 65 cents for Daybreaks. Can't afford to handle any but home grown stock.

YOUNGSTOWN, O.—About the same as last year. Retail prices also ruled about the same. Supply not equal to demand. Quality not so good. Increased call for carnations and cheaper flowers. Cold storage flowers sent to customers from the large cities were practically worthless when exposed to the air.

MINNEAPOLIS, MINN.—Increase of about 15%. Retail prices about same as last year. Bulb stuff was abundant but there were not enough roses and carnations. Quality better. Christmas trade was satisfactory all round, but New Years trade was not up to the standard.

NASHUA, N. H.—An increase of about 25%. Retail prices about the same as last year. Supply a little short. Quality equally as good. More call for carnations and less for roses. The call for palms and ferns was far ahead of last year, and holly was in more demand.

SPRINGFIELD, MASS.—Increase of about 10%. Plenty of flowers except roses. Retail prices about the same as last year. Quality fully as good. More call for medium priced flowers. Greens were abundant with the exception of native lycopodium which the early snows covered up.

RICHMOND, VA.—A very large increase over last year. Retail prices about as usual at the season. Supply was good with the exception of Beauties and violets. Quality better. Increased call for colored flowers both cut and growing plants. Large increased call for American Beauty roses and violets.

DETROIT, MICH.—An increase of 25%. Retail prices about the same in roses, carnations higher. Supply not fully equal to demand. Quality somewhat better, especially carnations. An increased call for violets, one firm retailed 18,000 Christmas. Greater demand for potted plants, palms and blooming plants.

NASHVILLE, TENN.—About the same. Retail prices lower. Supply abundant. Quality not so good. The demand seemed to be for cheap flowers regardless of quality. The prevailing prices on roses was \$1.50 to \$2 a dozen, a very few of excellent quality bringing \$3. Hyacinths and narcissus were abundant at 50 cents a dozen.

NEW HAVEN, CONN.—About the same. Retail prices compared favorably. Supply of carnations and violets not equal to demand. Quality as good as last year. A greater demand for small flowering and other plants such as Chinese primroses, begonias and ferns. Also increased demand for holly and evergreen wreaths, etc.

ROCHESTER, N. Y.—An increase of about 20%. Retail prices about the same as last year, a little less on some flowers. Supply as good though more good roses and colored carnations could have been sold. Quality better than last year. More plants sold than usual; warm weather helped the sale of them. There seems to be more holly sold each year.

DES MOINES, IA.—Very much larger than last year. Retail prices about the same. Supply short, could have sold $\frac{1}{2}$ more roses and carnations. Quality was better than last year. Not so much pickled stock sent in. Increased call for carnations and roses. Violets and bulb stock were not very largely called for. Sales of holly and other greens very much larger than ever before.

TERRE HAUTE, IND.—An increase of about 15%. Retail prices about the same as last year with the exception of Beauties which were higher. Supply equal to demand. Flowers of better quality. Increased call for American Beauties and violets. Trade all came a day before Christmas and there was a larger per cent of cash sales than ever before. More palms were used for presents.

NEW LONDON, CONN.—An increase of 25%. Retail prices about the same as last year. Supply was not equal to demand. Carnations and some roses were scarce and too high in price for this market. Quality was better all round. An increased call for carnations and plants. Palms and flowering plants were in brisk demand; more were sold than ever before, the weather being fine.

PORTLAND, ME.—About the same as last year. Retail prices about 20% lower on some flowers. The supply of flowers was larger than the demand. No perceptible difference in quality except in home grown carnations which were far superior. More call for carnations than for any other flower. Some of the dealers bought heavily in Boston but were left with the stock on hand.

LOUISVILLE, KY.—An increase of about 15%. Retail prices about the same as last year. Supply was equal to the demand; quality better. Increased call for carnations, Beauties and violets. Sold to more people but in smaller amounts than last year, but taken altogether there was an increase of about 15%, but a large proportion had to be charged on the books and was not cash.

NEW BEDFORD, MASS.—An increase of about 25%. Retail prices were about the same as last year though a trifle lower on some things. Supply was short on carnations and violets; quality better than last year. Increased demand for violets and colored carnations, the call being fully double what it was last year. The call for holly and wreaths was good, the quality of the holly was very good this year.

UTICA, N. Y.—Would have been much larger if there had been sufficient home grown stock to supply the demand. Prices at wholesale do not make it pay to buy from the large cities. Retail prices about the same as last year. Supply short on account of facts above noted. Quality about the same. An increased call for pink roses, orchids and violets and pink carnations. Orders were more numerous but smaller.

GRAND RAPIDS, MICH.—About 30% increase. Retail prices somewhat lower. Supply good except carnations and violets, for which there was an increased call. Large quantities of holly were sold but little mistletoe. Green was sold in smaller lots. Needle pines will not sell here. More plants and flowers were sold, fine palms selling so cheap that one could get a nice one for usual price of a dozen roses. This had a tendency to lessen the call for roses.

THE RETAIL TRADE.

The Arrangement of Flowers.

XVI

ROSE BASKETS.

The five illustration of rose baskets we present in this issue comprise part of the exhibit at the recent Chicago show.

The first principles in basket arrangement have been so fully covered in former articles, that we deem it unnecessary to again go over the whole treatment in detail, as to mossing, stemming, etc. These baskets represent what we would term the high grade article, though none of them are extremely large nor necessarily expensive. The best grade of stock that the market afforded was employed in

their make up. Here again we must emphasize the point made before, which is especially applicable to arrangements of long stemmed material without a supporting wire, that is the importance of imbedding the stems firmly in the moss to assure their lasting a reasonable length of time. In our desire to produce an artistic effect, we are too apt to neglect this very important point altogether, and the result is too often a production which though highly appreciated as regards arrangement proves a sore disappointment to the buyer when he finds that the choice roses for which he paid a good round price, are wilted in one short hour.

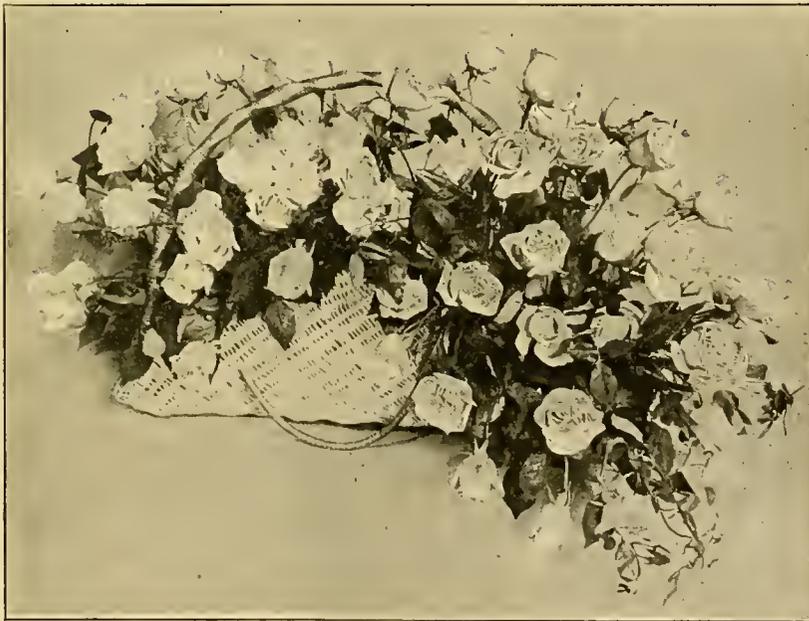
The first illustration shows a medium sized round splint basket with a moderately high handle, the buff tint of the basket harmonizing well with Meteor with which it is filled. No green except the natural foliage is used. Although we are rather partial to a judicious use of adiantum or other suitable foliage in a basket we must always consider the material with which we employ it. In the case of the Meteor rose a better effect probably can be obtained by barring the fern altogether. The stems of these flowers are clothed thickly with foliage closely up to the flower, thus giving us all the green necessary to bring out a desired effect to much better advantage than by adding any foreign material. The stems of the flower also being firm as a rule it lends itself admirably to an arrangement of this kind when no supporting wires are admissible. As no ferns are used, even around the rim of the basket, we should take good care that the flowers are draped well over the edge, though the lower part of the basket, particularly if it be a handsome one, should not be entirely covered up. As to the cost, such a basket at the present price of Meteor at \$15 to \$20 per 100, would be considerable more than the average customer would be willing to pay. But let us figure at the average price of \$6, and we have the cost as follows: 100 Meteors \$6, basket \$1.50, moss, stemming material and ferns to cover moss 50 cents, total \$8. Add your profit and we have say \$15 to \$16 as the selling price.

No. 2 is a white wicker basket with low handle, twisted in shape to form two pockets, the handle running diagonally across. The front pocket is filled with Bride roses arranged so as to project well over the lower rim, the other side is filled with Bridesmaid set somewhat higher and kept within the basket form. As the flowers reach well up to, and some above the handle, this is left undraped as it should be. This basket also is arranged without ferns. As these roses, however, are rather bare of foliage on the upper part of the stem it is well to add (if these can be procured) some branches of blind wood and place between the flowers. The cost would be, say 35 Brides at 5, and 35 Bridesmaid at 6, basket \$1 and incidentals 50 cents, total \$5.85. At retail the basket would be worth \$10 to \$12.

The third illustration shows an entirely different type. This is an oval white willow basket with high handle, filled with about 125 very long stemmed Testouts and Adiantum gracillimum and cuneatum. The handle is draped with about a dozen of the same roses and tied with a pink ribbon. It is not the easiest matter in the world to match a ribbon with a certain shade of flower, indeed it is next to impossible to find the exact shade of pink in a ribbon with the tint of the different pink roses. Nor is it necessary that it should be as long as the tint



FIRST PRIZE. ARRANGED BY P. J. HAUSWIRTH.

SECOND PRIZE. ARRANGED J. M. GASSER.
ROSE BASKETS AT THE CHICAGO EXHIBITION.

harmonizes with the flower. Often the effect is really much better if the ribbon is several shades either darker or lighter than the flowers. If you have an eye to color effect you won't go amiss; if you have not, better let the ribbon alone. The wrong shade of ribbon is simply killing the effect of the best arrangement that was ever made. This basket might be duplicated at the cost of say \$11.50 to \$12; 125 roses at 6, \$7.50, basket, moss, etc., \$1.50, 50 adiantum 50 cents, 3 yards

ribbon at 50 cents \$1.50. Selling price \$22 to \$24.

No. 4 is a very pretty arrangement of Brides and Bridesmaid in a square basket with medium high handle, on which a bunch of the same roses is tied with a cream tinted ribbon. Adiantum is used in this arrangement with very fine effect. The Bride rose in particular shows off to good advantage in connection with adiantum. First cost: 75 roses, let us say at 6, \$4.50, basket and stemming

material \$1.75, fern 50 cents, 3 yards ribbon \$1.50, total \$7.75; at retail \$15.

The last illustration is a very showy and handsome basket of a style which we term a "Theatre basket." It is a typical French opera basket designed principally for show. The effect of the arrangement as is plainly shown in our illustration is superb, the whole make up showing good taste and skill. The basket is filled with Bride roses with their own foliage while the handle is trimmed with a massive bunch of Meteor and Mermets at the top with a graceful spray of Perles on one side and Brides on the other, reaching down to the bottom, tied with cream tinted ribbon. Cost: say 125 roses at 5, \$6.25, basket, etc., \$1.50, ribbons \$1.50, total \$9.25; retail \$18 to \$20.

Violets.

Violets are now in season. Like the rose the violet is always welcome and always in demand. It is safe to say this condition will endure for all time, unless indeed we should by our own fault make this little favorite unpopular to the general public by offering it for sale in an objectionable condition, such as alas! is too often the case at the present day. The violet is not what might be termed a decorative flower, its chief charm being its fragrance, and when the latter is lacking the flower is almost worthless. The extreme high prices which have prevailed for a number of years during the fall and winter months have kept it practically out of the reach of the mass of the people and more is the pity. But even the rich will object to paying a dollar for a bunch of 25 blooms, no matter how fine these may look, if devoid of fragrance. How to manage the stock to preserve that fragrance as long as possible must therefore be considered as one of the most vital points. The grower first, the commission dealer next, and last, but not least, the retail florist, should study this question thoroughly.

We know that the violet is apt to take up and hold longer even than their own fragrance the odors of articles with which it comes in close contact. Thus we often find in freshly pulled flowers that peculiar odor arising from decayed wood. For the cause you may not have to look further than the house the flowers are grown in; the rotten benches are plainly in evidence. Some growers use a top dressing of light manures; the result so far as the odor of the flower is concerned is often disastrous. It should follow therefore, aside from all other considerations, that the air in the violet house must be pure and sweet. It is a well known fact that on a bright sunny day, with the ventilators open, the violet emits a much stronger fragrance than in damp and cloudy weather and the blooms picked at such a time will retain their fragrance for a much longer period. But we don't have the benefit of sunshine every day to aid us and the violets have to be gathered when our trade demands them.

If the houses are clean and sweet the flowers will be fragrant when picked at the proper time, and that is when the blooms are fully expanded. A partially developed flower is not as sweet as the former and will not retain its odor as long. As the picking and bunching of violets take time and the stock is required on the market at an early hour in the morning, it is generally found necessary to gather the stock the evening before. There is no objection to such practice if the blooms are treated properly before

shipping. *Avoid a chilling temperature always* should be a maxim lived up to from the time the blooms are gathered until they reach the consumer, since it is a well known fact that the odor will depart in a few hours if the flowers are kept in a cold place. If the stems are placed in water and kept in a temperature of nearly the same degree as that maintained in the house where they were grown the flowers will be found sweet the next morning and will retain their fragrance for that day at least.

The commission dealer is the next to handle them. If the stock passes at once into the hands of the retailer well and good, but that left over from the morning's sales is generally placed in the ice box to "keep it fresh," which is fatal to the preservation of the fragrance. When late in the day you buy your stock it is practically worthless and all for want of a little judicious care. To the commission men we would say: *Keep the violet out of the refrigerator*, and the retail florist must observe the same rule.

There are various modes of keeping the stock fresh and sweet. Some florists wrap each bunch in tissue paper and then place the stems in water and keep them on the sales counter. This is all right but it necessitates the unwrapping of each bunch for the inspection of a prospective buyer, which consumes too much time. One of the best methods, perhaps, which is practiced by a number of dealers, is to lay the bunches in a box, placing a sheet of damp tissue on the bottom and another on top, closing the lid tightly. This box, if kept on the counter to have it handy, should be neat in appearance and kept scrupulously clean inside; tin or galvanized iron answers best. Paper boxes are objectionable for several reasons. In the first place the dampness renders them unfit for use any length of time, and the flowers are apt to absorb an objectionable odor arising from the glue and paste used in making the box.

As has been stated in a previous article, fresh violets which have lost their fragrance by chilling might be treated by placing the stems in warm water and kept for a few hours in a warm atmosphere, under which treatment the flowers often regain a partial degree of their natural fragrance; but such experiments are not always successful. How often have we heard a remark of the dealer confessing his own ignorance, if nothing worse. Customer: "Are these violets fresh? They haven't a particle of odor." Florist: "Why, you see, madam, the flowers have just been taken out of the cold ice box, but just as soon as you place them in a warm temperature they will again become delightfully sweet." In the first place are you sure of it? And if the buyer is an intelligent person won't he or she argue: "If you know that the cold atmosphere in your ice box robs the flower of its main value why do you place it there? And if you are sure the flowers will regain their natural fragrance under the conditions you suggest why don't you try that experiment yourself before you offer them for sale?" Besides the buyer may not care to carry her purchase home and wait for several hours for the transformation. The fragrance is wanted *now*, when you make your sale.

Of the daily supply of violets probably one-half reaches the consumer entirely destitute of fragrance. But this is not the worst, bad as it may appear. Stock is offered at the wholesale markets, and too often retailed also, the odor of which suggests the barnyard in a painful degree. To sell such stuff is simply criminal.

There is one other offense worse than this, and that is to try to doctor such material with violet perfume. B.



Carnation Notes.

Many of the boys are thinking now of starting into business on their own hook. Well, boys, that is all right if you have pluck enough to start, but be sure to begin on the right line and whatever you undertake, do it well and stick to it. Men have made fortunes by sticking to the business into which they first entered but they followed the advice which our Chauncey gave to a college graduating class, "stick, dig and save."

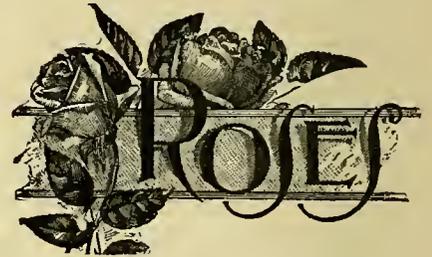
Boys, let whatever you undertake be a specialty; in the majority of cases you must begin in a moderate way and if you are growing for the wholesale market you must have enough of one article to make it an object for the commission dealer to handle; if you grow a miscellaneous lot of stuff and only a little of a sort, no one wants it and you will suffer. I have heard some say that growing for a retail or local trade is not a specialty, but this is a mistake, do not undertake this line unless you have had some experience and it must have been thorough at that. Then again some say that for a local trade you must not confine yourself to one class of plants; this is not a fact, if you are in the neighborhood of a large town. Buyers will go where they can get the finest flowers. The flower buyers in my vicinity are paying for carnations nearly double what they could get fair stock for. If you have and will use a little judgment in advertising or getting your goods before the people you will soon have the best of the trade. There is no better stock for you to handle than carnations providing you don't get the big head and think that the only thing for a full grown man to raise is roses or orchids. Try all the new kinds if you will but twelve of a sort will fill the bill and will serve every purpose especially when you remember that every plant takes up one square foot of bench room. Grow for your main crop varieties that are recognized as standard sorts and such as you know will do well in your vicinity. The following do well in nearly every locality: Scott and Daybreak for pinks; Portia, red; McGowan or Silver Spray, whites; about yellow it is a question, Buttercup puzzles nine growers out of ten, so do not use it; Bouton d'Or is a good one, in fact it is all in all the best of its class yet on the market; Goldfinch is very good but the flowers are not quite as large as desired; it is, however a more profuse bloomer than any yellow we have seen. For a crimson get Meteor; it is a novelty of this year and comes high but when the quality is taken into consideration it is cheap. I saw it growing with the originator, Fred Dorner and The Cottage Gardens have it in magnificent shape; as it is now bringing eight dollars in the New York market it will pay to grow; it is the best all round crimson yet introduced.

Boys, above all things leave seedling raising alone until you can afford to undertake it as a pastime or hobby; it is expensive and very uncertain and when you con-

sider that not one per cent. of the plants raised prove worthy of disseminating it will show you very conclusively that the specialist in this line has a great advantage over a beginner.

Make up your mind that if you ever are successful it must come through harder work than ever you did for your employer; the hours must never be counted, your work will never be in such shape that you will have leisure time. You must have your fun but never neglect business for pleasure and the time will come when you can go with the rest who have had the same hard row to hoe. Have your broom in a handy place, for cleanliness is next to having the best flowers in the market; when ever you see very fine flowers you will find clean surroundings. There are exceptions to this rule I am told but they never have come to my notice.

CHARLES H. ALLEN.



Small Spots on Rose Foliage.

We send a few leaves taken from a plant in our rose house. You will notice that both surfaces are covered with small black spots. Can you tell us what they are and what caused them? Even the flowers are covered. Bride buds look as if pepper had been sprinkled over them.

The way we account for it is this. About a week ago we remulched the beds with 1½-inches of pure cow manure, which was rather fresh. That is, it was manure that had been dropped since early last spring. Upon the manure, in time, appeared a light fungus of white appearance. Upon stirring the manure, or upon syringing, this fungus appears to explode and cast up the matter that makes the black spots. Upon stirring with one hand and holding the other 18 to 20 inches above the bed you can feel the particles fly up and attach themselves to your hand. We do not know whether the spots will result in any further harm than disfiguring the flowers and foliage. K.

Your surmise as to the manure being the cause of the trouble is correct. Fresh manure will always cause it when the atmosphere of the house is moist or confined. After a while the fungus will pass off and will not trouble you further, but in the meantime your flowers will be damaged. In all my notes regarding the mulching of roses I have always recommended *well decomposed* manure, and put on in light quantities each time. This was to avoid any such trouble as you now have.

The best thing to do now is to make a weak solution of lime water, say 10 pounds of fresh lime, thoroughly dilute it in 50 gallons of water and moisten the whole surface of the mulching through. It will destroy the fungus that you have, now growing so abundantly in the manure, and will prevent the trouble spreading or increasing, and after the present crop of flowers is cut I do not think you will have any more trouble with it. It is always best to avoid using fresh manure if possible and certainly if compelled to do so use only a very thin mulching each time. JOHN N. MAY.



THIRD PRIZE. ARRANGED BY W. J. SMYTH.
ROSE BASKETS AT THE CHICAGO EXHIBITION.

Miscellaneous Seasonable Hints.

The New Year is somewhat of a turning point, or at least a large mile stone, in our floricultural operations and without further remarks I shall endeavor to remind you of several things which of necessity will be very old to most readers, but most likely a reminder to a few.

With the large sale of plants which all retailers have during the holidays you will now have room to spread out many things needing room, as well as bring in from the frames crops for Easter. Before mentioning anything that now needs attention, don't forget at this time to make a memorandum on paper as well as on brain of what you were short of this Christmas and be prepared in good season either by seeds or cuttings or bulbs as the case may be to have an abundant supply for next year.

Save all the poinsettias you can and lay them on their sides under a dry warm bench where no drip will reach them, or if you have a warm shed stand them up in a corner, they are best served by being perfectly dry both at root and branch for the next three months.

Don't forget to save a few old plants of

Stevia serratifolia. Cut them down to within a few inches of the pot and stand in some light cool corner of your houses, no matter how cool so long as no frost touches them. Don't be in a hurry to propagate them; they are rapid growers like most of their kind and if cuttings are put in the sand in March it is plenty of time. Some may laugh at this cheap plant, particularly specialists, but for the retailer it comes in very useful; it helps out wonderfully on many occasions.

You will be sure to have a few plants of *Linum trigynum* left over. When they are entirely out of flower cut them back to within 7 or 8 inches of the pot, keep a little warmer than they flowered in and well syringed, and in a few weeks you will get plenty of cuttings which root very readily. As far as I have noticed I am about the only commercial florist who has been advocating the growing of this plant. Last year I grew but 2 or 3 plants giving them a good test in my own dwelling house; it proved so entirely satisfactory that I felt warranted in advising my brother florists to grow it. I now assert once more it is a good house plant, and what is greatly in its favor it flowers exactly on time for the holidays. It drops

its flowers 'tis true, but for every flower that drops two will open and the plants covered for weeks with its large bright, yellow blossoms. It rather seems to like the dry atmosphere of a living room, but is a great feeder and must never be allowed to want for water.

Once more look well after your azaleas. It is well to have a few coming along all the time, but the great bulk of them are more profitable for Easter. Give them more room now and when standing them over, look out for the leaf growth which starts at the base of the flower bud. If you want to sell them this spring you must rub that growth off or that will take the lead and the flower buds will never develop. Almost all (perhaps all) our azaleas are imported from Europe and in the main wonderfully well grown for the price. It pays the average florist to dispose of his plants the first year. Watch out for dates and get them right for Easter. The azalea will stand a very low temperature (even under some conditions a slight freeze) so you can retard them at will. Cut off those long prominent growths, they are blind and add nothing to the beauty of the plant.

Another leading article for Easter is the Bermuda and longiflorum lily. Constant vigilance will be well rewarded when bestowed on these important plants. No man living can put them in a house and say they will be in flower at Easter. Many times perhaps you will have to move them round from one temperature to another and it is time well spent. Even in a batch of plants potted at the same time and the same grade of bulbs they won't all flower at the same time, so a constant watch and moving is necessary. Continual and regular fumigation is absolutely necessary, and in addition to that let a boy go over the plants once a week with a small syringe and squirt a little weak tobacco water down into the heart of the young leaves. Aphis will get there and in spite of frequent fumigating will get in their deadly work which later accounts for the crippled buds.

If you force a few lilacs bring them in at intervals.

They force easily in a night temperature of 60° and a shaded house. If you have not a palm house then put some cheese cloth or some such material over them. Don't bring in your crop for any special occasion before 6 weeks of the time when you want them.

It is well now to bring in your *Spiræa Japonica* (astilbe). They should have been potted and in a cold frame six weeks ago and now be all the better for it. Start them in a moderate temperature and if you are crowded for room, under the benches is good enough for a few weeks or until they begin to make leaves. Plenty of water and no tobacco smoke are the only requisites to grow *spiræa* well.

Don't crowd your cypripis; they are easily injured when allowed to stand touching and will lose their bottom leaves. Watch out to keep them back in flowering; they pay better at Easter than any other time and no harm will be done by keeping them in a temperature but a few degrees above freezing.

If you force any hydrangeas for Easter it is time to start them. For early forcing choose those plants that have ripened their wood the most, start in a night temperature of 55° and slowly increase it; when the flower bud is visible you can raise it to 65°, and higher the last few weeks if necessary. There are now so many fine plants grown for the Easter trade that I scarcely see where we need hydrangeas, yet there is room always for

a few. The balance of your stock can be left under a cool bench till March 1, giving them only sufficient water to prevent the stems shrivelling. Those started early in March will bloom middle and end of May, when they are in great demand.

There are not many seeds to sow just now. If you have not yet sown cyclamen do so at once. If you grow *Centaurea gymnocarpa* it should be sown early in January.

Those who were fortunate enough to depend on cold storage valley for holiday trade had some flowers but those who depended on new stock had poor results, for there was so little need of firing before Christmas that there was a sad lack of heat in the sand. Now real winter is here you can get good results; a batch of the new stock should be regularly put in at least once a week.

You can now bring in a large batch of the best kinds of tulips as well as Von Sion. For the next 6 or 7 weeks to do them well they will want a good shade and a continuous temperature of 70°; without the shade your stems will be short. Don't attempt to force any of the double varieties for two months to come. La Reine, Vermilion Brilliant, Chrysolora, Yellow Prince, Keizers Kroon, Prosperpine and White Pottebakker, will now flower well and by the end of the month will be in grand form and sell well.

If you potted any Dutch hyacinths early and they are now well rooted you can bring a few in to force, and keep up a succession by bringing in a few every week. As the season advances they will require much less time to flower.

W. SCOTT.



Chrysanthemum Society of America.

Below we present an alphabetically arranged list of the new chrysanthemums submitted to the committees of the Chrysanthemum Society of America during 1894, with awards noted, where given, and the committees' classification and description. "Cert." is used as an abbreviation of certificate. Of the 66 varieties submitted for judgment 28 were recommended for certificates, further trial was advised for 14, while the remaining 24 were not considered as worthy of even further trial.

Allamanda (E. G. Hill & Co.). Chicago, Oct. 20. "Reflexed yellow."
Cincinnati, Oct. 20. "Type of Yellow Queen, but inferior as to texture, form and size."
Amaranth (F. Dornier & Son). Chicago, Nov. 17. Cert. "Reflexed Jap. White, shaded and lined with amaranth. Very high built. A pleasing color. Great substance. Good form. Stem and foliage good."
Arlington (Chas. Bird). New York, Nov. 10. "Creamy white incurved Jap. Deficient in texture of petals, showing eye badly; also lacks in foliage."
Arriere (F. Dornier & Son). Chicago, Nov. 24. Cert. "Bright yellow with brown shadings. The combination of the two colors gives a light bronze effect."
Baby Charles (Wm. Anderson). New York, Nov. 10. "Yellow reflexed Jap. Resembles Golden Wedding, a little lighter in color, but not so good."
Bird, Lettie (Chas. Bird). New York, Oct. 20. "Reflexed Jap. Yellow. Resembles Pres. Hyde. Medium size."

Bird, Sallie (Chas. Bird). New York, Oct. 20. "Reflexed Jap. White, yellow center; small."
Black, Miss Louise D. (E. G. Hill & Co.). Philadelphia, Nov. 10. Cert. "Deep bright yellow Chinese incurved. An improved Mrs. L. C. Madeira. Has a stout erect stem; much better in every way."
Bloodgood, Helen (T. H. Spaulding). New York, Nov. 10. Cert. "Clear bright pink incurved Jap. Good stem and fair foliage. Resembles Challenge in build, but has narrower petals. A grand flower."
Philadelphia, Nov. 10. Cert. "Clear pink incurved Jap. A very pretty bloom."
Bock, Betty (Theo. Bock). Cincinnati, Nov. 10. Further trial advised. "Pink incurved Jap. Resembles Ada Spaulding in form and color, but has greater petalage. Blooms shown were poorly finished."
Brigand (T. H. Spaulding). New York, Nov. 17. "Crimson Jap. Resembles Geo. W. Childs, but no improvement. Good full flower, good stem and foliage."
Campbell, Mrs. Jas. E. (Theo. Bock). Cincinnati, Nov. 10. Further trial advised. "Blush pink incurved Jap. Size and color too irregular to warrant an opinion."
Chipeta (N. Smith & Son). Chicago, Nov. 17. "Buff incurved Jap. An immense flower; shade of vanilla paper; of great substance, lacking a good color effect only."
Columbine (P. D. Hatfield). Boston, Oct. 20. Further trial advised. "Incurved Jap. Face of petal light red, reverse bronzy yellow. This is not sufficiently distinct from many others in this class, unless it may be its earliness; stem weak on crown and stiff on terminals; foliage good."
Dean, Helen (T. H. Spaulding). New York, Oct. 20. "Incurved Jap. yellow. Resembles Cannell. Good stem and foliage, but lacking in color."
Debutante, The (R. Witterstaetter). Chicago, Oct. 20. Further trial advised. "Jap. incurved. White. Not far enough developed."
Dugdale, John (T. H. Spaulding). New York, Nov. 10. "Crimson reflexed Jap. Resembles Geo. W. Childs, but not so good in either color or build."
Durango (N. Smith & Son). Boston, Nov. 10. Further trial advised. "Reddish brown tipped yellow. Stem strong and foliage good. Petals very broad and flat; good substance. Flowers considerably bruised when unpacked."
Egyptian, The (E. G. Hill & Co.). Philadelphia, Nov. 17. Red. Further trial advised. "Form good. Beautiful in color, and would be popular."
Ellerslie (T. H. Spaulding). Philadelphia, Nov. 10. Further trial advised. "White Jap. Full to the center. Graceful in form, but rather too weak in stem."
Falconer, Jeannie (T. H. Spaulding). New York, Nov. 10. Cert. "Canary incurved Jap. Resembles Emma Hitzeroth in color; flower higher built; good stiff stem, but a little deficient in foliage."
Ferris, Dr. Randolph (T. H. Spaulding). New York, Nov. 10. "Flesh pink reflexed Jap. Good stiff stem, foliage and substance of flowers good."
Gold Fever (E. G. Hill & Co.). Philadelphia, Nov. 17. Cert. "Yellow Chinese. Flower larger than Mrs. L. C. Madeira, which it resembles, and has better stem."
Harris, Grace (T. H. Spaulding). New York, Nov. 17. "White Chinese incurved. Good stem, fair foliage. Improvement on Mrs. Robt. Craig. A grand addition to this class. Almost identical with Miss G. Spaulding, as shown on the 10th inst."
Hatfield, Mrs. T. D. (T. D. Hatfield). Boston, Oct. 20. Cert. "Incurved lemon yellow. This variety is of fine form, with high center; foliage is ample and well up to the flower; stem straight and stiff. At this date flower is about two-thirds developed."
Hayes, Francis B. (N. F. Comley). Boston, Nov. 17. Cert. "Deep rose pink incurved Jap. This variety is the result of a cross between Ada Spaulding and Louis Boehmer and is a flower of great substance, and beautiful in form. It is dwarf in habit, with very fine foliage which is well up to the flower. Stem very stout. Petals show a few glandular hairs. Certificated by Mass. Hort. Society."
Her Majesty (E. G. Hill & Co.). Cincinnati, Oct. 20. "Jap. incurved. Very pale pink. Resembles Mrs. E. G. Hill in form, but far inferior in color."
Chicago, Oct. 20. Cert. "Jap. incurved. Pale salmon pink. This, while but a few shades different from Mrs. Hill, is, if it remains constant, a much better color, especially for commercial purposes. Sport from Mrs. E. G. Hill."
Hole, Dean (J. N. May). Philadelphia, Nov. 10. Cert. "White, beautifully flushed with delicate pink. Very large and of fine form. Japanese."
Hurley, Mrs. Wm. H. (Hugh Graham). Philadelphia, Oct. 20. Cert. "Jap. Bronze or old gold. The flowers are graceful in form; a shade lighter and somewhat similar to Source d'Or; foliage very handsome. Desirable on account of earliness. About 8 inches in diameter."
Johnson, Miss M. M. (E. G. Hill & Co.). Cincinnati, Oct. 20. Cert. "Jap. incurved yellow. The six blooms shown were perfect specimens, and we think it a valuable acquisition. We were unanimous in this decision."
Chicago, Oct. 20. Cert. "Jap. incurved yellow. A fine early commercial variety."
Kemble, Mrs. Wm. H. (Chas. W. Cox). Philadelphia, Nov. 24. Cert. "This is a very distinct and beautiful variety. The flowers are very full, the petals somewhat resembling those of Elkshorn. A valuable late variety."
Kupferle, Rosa (R. Witterstaetter). Chicago, Oct. 20. Further trial advised. "Japanese magenta pink. Not fully developed."
Lager, J. E. (Pitcher & Manida). New York, Oct. 20. Cert. "Jap. reflexed. Bright yellow. Resembling J. H. White in build, stem and foliage."
Nada The Lily (R. Gardner). New York, Oct. 20. "Reflexed Jap. White. Resembling Pandanus in form; much larger; long twisted petal; full; good stem and foliage."
Neal, Mrs. Jas. E. (Theo. Bock). Cincinnati, Nov. 10. "Dull wine color. No good whatever."
Nemesis (J. N. May). New York, Oct. 20. "Reflexed Jap. white. Good stem and foliage." [The name "Nemesis" has already been used. It is a recent introduction by E. Lacroix and is described as "Jap.; delicate rose, pointed, striped white."—Ed. A. F.]
Neva (N. Smith & Son). Philadelphia, Nov. 10. Further trial advised. "White suffused with light pink. Jap. Loose flower; stem rather weak. Arrived in poor condition."
Newbold, Miss Margaret (R. G. Carey). Philadelphia, Nov. 10. Cert. "Delicate pink incurved Jap. Mermaid type, better color. Good stout stem."
New York (T. H. Spaulding). New York, Nov. 17. Cert. "White suffused lemon and bluish. Incurved Jap. Bold massive flower 6½ inches in diameter and 12 inches over. Fair stem and foliage, style of Edward Hatch." Also certificated at Philadelphia.
Oakshade (R. G. Carey). Philadelphia, Nov. 10. Cert. "Purplish pink. Very distinct and beautiful form. Petals very peculiar; somewhat resembles a salvia floret."
O'Farrell, Elma (F. Dornier & Son). Chicago, Nov. 24. Cert. "Deep rose pink reflexed. A new color in the Vivand-Morel class."
Opal (E. G. Hill & Co.). Chicago, Oct. 20. Further trial advised. "Jap. Magenta pink. Not developed."
Parker, Mrs. M. R., Jr. (T. H. Spaulding). New York, Oct. 20. Cert. "Incurved Jap. Lilac pink, silvery reverse. Bold flower, full and solid. Strong stem and foliage."
Parting Guest (T. H. Spaulding). New York, Nov. 24. "Lower half of flower rose, upper half white. Incurved Jap. Good stem and foliage. Flower medium size, very attractive; unique."
Philadelphia (Hugh Graham). Philadelphia, Nov. 1. Cert. "An entirely new type in coloring and in form of petal or floret, and in the general contour of the flower, though it is very nearly globular as a whole. It is the greatest step onward that we have had among chrysanthemums for many a day. In color it is white, illuminated with a charming shade of lemon yellow, giving it light and life never before noticed in any flower. The petals are similar in formation to a canoe with the prow incurving, similar to a parrot's bill. The committee recommend the award of the highest honors in the gift of the Chrysanthemum Society of America."
Rand, Mrs. W. H. (J. C. Vaughan). Chicago, Nov. 10. Cert. "Orange yellow reflexed Jap. Long interlacing petals. Very graceful and good substance."
Reynolds, Maud D. (T. H. Spaulding). New York, Nov. 17. "Bright canary reflexed Jap. Fair flower, good stem, foliage deficient. No improvement on existing varieties."
Rieman, Henry W. (E. G. Hill & Co.). Philadelphia, Nov. 17. Cert. "Deep yellow Chinese. A superb variety. Should rank in the very first class."
Riverside (Riverside Floral Co.). Chicago, Nov. 10. "Lemon yellow reflexed Jap. So poorly grown we cannot consider it."
St. Louis (A. Jablonsky). Chicago, Nov. 10. "Yellow shaded buff. Jap. Sport from Mrs. Frank Thompson. Of no value."
Sinaloa (N. Smith & Son). Philadelphia, Nov. 10. Further trial advised. "Light pink incurved Jap. This is a very pretty flower, but is rather undersized."
Boston, Nov. 10. Further trial advised. "White with pearly tint. Inc. Jap. This variety is very full and beautiful in form, with fine stem and good foliage, but as shown lacks size. Arrived in poor condition."
Smith, Edith (T. H. Spaulding). New York, Oct. 20. Further trial advised. "Full large flower. Good stem and foliage."
Spaulding, Miss G. (T. H. Spaulding). New York, Nov. 10. Cert. "White Chinese incurved. Resembles Mrs. Robt. Craig, but is larger. Good stem and foliage. A grand flower for a Chinese."
Boston, Nov. 10. Further trial advised. "Creamy white Jap. incurved. A remarkable full and deep flower, with very strong stem and good foliage, but lacks in size of bloom

nat, Oct. 20. Cert. "Jap. incurved yellow. The six blooms shown were perfect specimens, and we think it a valuable acquisition. We were unanimous in this decision."
Chicago, Oct. 20. Cert. "Jap. incurved yellow. A fine early commercial variety."
Kemble, Mrs. Wm. H. (Chas. W. Cox). Philadelphia, Nov. 24. Cert. "This is a very distinct and beautiful variety. The flowers are very full, the petals somewhat resembling those of Elkshorn. A valuable late variety."
Kupferle, Rosa (R. Witterstaetter). Chicago, Oct. 20. Further trial advised. "Japanese magenta pink. Not fully developed."
Lager, J. E. (Pitcher & Manida). New York, Oct. 20. Cert. "Jap. reflexed. Bright yellow. Resembling J. H. White in build, stem and foliage."
Nada The Lily (R. Gardner). New York, Oct. 20. "Reflexed Jap. White. Resembling Pandanus in form; much larger; long twisted petal; full; good stem and foliage."
Neal, Mrs. Jas. E. (Theo. Bock). Cincinnati, Nov. 10. "Dull wine color. No good whatever."
Nemesis (J. N. May). New York, Oct. 20. "Reflexed Jap. white. Good stem and foliage." [The name "Nemesis" has already been used. It is a recent introduction by E. Lacroix and is described as "Jap.; delicate rose, pointed, striped white."—Ed. A. F.]
Neva (N. Smith & Son). Philadelphia, Nov. 10. Further trial advised. "White suffused with light pink. Jap. Loose flower; stem rather weak. Arrived in poor condition."
Newbold, Miss Margaret (R. G. Carey). Philadelphia, Nov. 10. Cert. "Delicate pink incurved Jap. Mermaid type, better color. Good stout stem."
New York (T. H. Spaulding). New York, Nov. 17. Cert. "White suffused lemon and bluish. Incurved Jap. Bold massive flower 6½ inches in diameter and 12 inches over. Fair stem and foliage, style of Edward Hatch." Also certificated at Philadelphia.
Oakshade (R. G. Carey). Philadelphia, Nov. 10. Cert. "Purplish pink. Very distinct and beautiful form. Petals very peculiar; somewhat resembles a salvia floret."
O'Farrell, Elma (F. Dornier & Son). Chicago, Nov. 24. Cert. "Deep rose pink reflexed. A new color in the Vivand-Morel class."
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ARRANGED BY J. M. GASSER.
ROSE BASKETS AT THE CHICAGO EXHIBITION.

Resembles Mrs. Rob't Craig, and in some ways Mrs. T. H. Spaulding. We would recommend a more distinctive name, as there is already a Miss Gladys Spaulding, and several other Spauldings.

Philadelphia, Nov. 10. Cert. "An improved Mrs. Rob't Craig. An exceedingly well built flower. A charming variety."

Sunrise (J. N. May). New York, Oct. 20. Further trial advised. "Jap. Mahogany red, reverse old gold. Large flower. Good stem and foliage. Earliest of the color."

Sunshine (E. G. Hill & Co.). Philadelphia, Nov. 17. Further trial advised. "Light yellow Jap. Good form, but rather undersized." [Sunshine is the name of a variety introduced last year by Owen. It is described as "Jap. yellow, large petals, early."—Ed. A. F.]

Tippecanoe (F. Dörner & Son). Chicago, Nov. 17. Cert. "Inc. Jap. Pale reddish terra cotta, reverse satiny straw color inclined to buff. Has a changeable effect difficult to describe, but novel and charming in color. Half globular."

Trotter, Mrs. Edw. H. (R. G. Carey). Philadelphia, Nov. 10. Cert. "Pure white reflexed Jap. A well built bloom of great solidity; stout stems. Should make a first-class commercial variety."

Troy, J. H. (Pitcher & Manda). New York, Oct. 20. Cert. "Incurved Jap. White shaded canary. Large, full, bold flower. Strong stem and foliage."

Venus de Medici (J. N. May). New York, Oct. 20. "Reflexed Jap. Dull lilac pink."

Walz, Ella (Fred. S. Walz). Boston, Oct. 20. "Jap. Creamy white. Not sufficiently distinct from Marie Louise, and not as good as Mme. LaCroix. Poor substance; stems stiff; foliage good."

Philadelphia, Oct. 20. Further trial advised. "A promising variety, its chief merit being earliness."

New York, Oct. 20. "Jap. white. Arrived in poor condition."

Chicago, Oct. 20. Not considered.

Walz, Fred (Theo. Beck). Cincinnati, Nov. 10. Cert. "Lilac pink incurved Jap. Form perfect; full to the center; petals boat shaped, lower ones falling to the stem forming a ball. Good for variety."

Weller, Sam. (Chas. Bird). New York, Nov. 16. "Lilac purple with silvery white reverse. Inc. Jap. Resembles Mrs. Geo. West, but not so good."

Wentworth, Mrs. Moses J. (J. C. Vaughan). Chicago, Nov. 10. "Yellow Jap. Style of Lincoln, but not as large. More globular in form, a fine flower of great substance, but not enough in advance of existing varieties to warrant a certificate."

White Cloud (E. G. Hill & Co.). Cincinnati, Oct. 20. "Creamy white. Type of Mrs. Langtry. No improvement except in earliness."

Wiedersheim, Mrs. T. E. (Hugh Graham). Philadelphia, Oct. 20. Cert. "Jap. Very light delicate pink, resembling Daybreak carnation. Somewhat globular in form; good stiff stem; fine foliage; dwarf grower; very full; excellent substance. Very desirable on account of its earliness. About 6 inches in diameter."

Chrysanthemum Names.

The following correspondence is self explanatory:

Dec. 15, 1894.

MR. T. H. SPAULDING, Orange, N. J.

Dear Sir:—We are compiling a resume of the work of the Chrysanthemum Society of America for 1894, and in documents received from the secretary of the society we note that one variety exhibited by you at New York November 10, and which received a certificate, is given as Mrs. G. Spaulding. From other sources we have received it as Miss G. Spaulding. We understand that there is also a Gladys Spaulding. Will you kindly advise us as to the exact name of the variety that received a certificate at New York November 10, and also whether Miss G. Spaulding and Gladys Spaulding are the same or not, and thereby oblige Yours very truly,

AMERICAN FLORIST CO.

JERSEY CITY, N. J., Dec. 20, 1894.

AMERICAN FLORIST CO., Chicago, Ill.

Gentlemen:—I have been absent for a few days, and on returning find yours of the 15th instant, and in reply would state:

I propose calling my new chrysanthemum Miss

Gladys Spaulding. I am well aware that in 1888 an anemone variety was sent out under above name, but as there is not a plant of it in existence on this side of the ocean, and I doubt if there is more than one or two parties in England who have it, thereby making it practically extinct, there can be no harm done to anyone, as the general public are not conversant with such fine lines or discriminations as regards names, and those that are well posted are aware that the old variety is practically extinct. These same facts would apply to at least fifty per cent of the names as published in your directory, and I can see no harm in having them duplicated, and I can see no harm and descriptions as given by you are of plants that were never distributed, and of some that were distributed but a very, very limited number were ever sent out, and in many cases such distribution occurred six or eight years since.

I also doubt, if a reward was offered for 50 per cent of the names above mentioned, if a true plant of each could be found.

Under such circumstances I can see no harm in reviving a name, when its predecessor is practically extinct.

I believe Smith this year has named one of his set Juno, and if I am not mistaken, there was a Juno distributed in either '88 or '89.

Trusting this may be satisfactory, I remain,
Yours respectfully,
T. H. SPAULDING.

No. It is not at all satisfactory. In the report of the Chrysanthemum Society of America and in the list in our directory and reference book the variety Gladys Spaulding is on record. These lists have been widely disseminated among American chrysanthemum growers, and the duplication of the name is bound to cause confusion. What evidence are we to accept that a variety is extinct? And where is the necessity for duplicating the name even if the variety is extinct? Mr. Spaulding will confer a favor by designating those varieties in our list that were "never distributed." Varieties that were not disseminated should not appear in the list, but any one of which even one plant was sent out should be on record, and its name should under no circumstances be knowingly duplicated, otherwise confusion is sure to result.

Mr. Smith was notified that the name Juno had already been used, and he at once gave his variety another name.

Foreign Notes.

In the London *Garden* of November 17 appears the following from the pen of Mr. C. Harman Payne, foreign corresponding secretary of the National Chrysanthemum Society of England:

On the second day of the N. C. S. exhibition blooms of a variety called Philadelphia were received from an American grower, Mr. Hugh Graham. This variety, presuming our climate does not make any difference, is destined to occupy a prominent place in our collections. After its voyage across the Atlantic Philadelphia certainly seemed none the worse, and it may be described as a very large round Japanese incurved flower with grooved, pointed florets of great width. The reverse is ribbed and the color white, with a faint primrose marking at the tips. It has already been awarded a first-class certificate by the American Chrysanthemum Society, and the English N. C. S. thought so highly of it that they awarded the raiser their silver-gilt medal. Mr. Hugh Graham may be congratulated on his enterprise in despatching blooms for exhibition such a distance, and he is certainly the first American who has been awarded such a distinction.

And the following chrysanthemums of American origin were honored by certificates by the National Chrysanthemum Society of London, England:

W. G. Newitt.—A very large white Japanese, with long drooping florets, seen in good form last season and fairly well known.

Niveus.—An excellent Japanese from America. A deep, chaste-looking flower of the purest paper white. The blooms are compact and the florets of medium width.

The Queen.—Rather a large, solid-looking Japanese, with curly, notched florets of great length; color white.

E. L.

DO YOU WANT Mr. Scott's seasonable hints for the year in book form, so that you can refer readily to his suggestions for any week in the year? You will find them in this form in our trade directory and reference book for 1894. Price \$2.00.

Boston.

Trade has been at a standstill since Christmas. In this respect Christmas seems to come as a positive injury to the flower market. It disarranges things generally, for the time being, and in exchange we get a couple of days of extra activity, followed by a week of the dulllest kind of dullness. There was a time when New Year's demands served as a partial recompense for this condition, but this is the case no more, and New Year's now makes not the slightest ripple on the surface of the flower trade in Boston, the shipping trade for this occasion being also a thing of the past. The lack of demand has been accompanied by a rather short supply of stock, and so there has been but little trouble with any overstock, and no great slaughter of prices as yet. Roses vary greatly in price realized. While, for instance, for Mermets of fair every day quality \$8 per hundred is about the average figure obtainable, some growers with special grown and handsome stock are asking and getting as high as \$25 per hundred. Carnations are not too plentiful for regular requirements, and go all the way from \$2 to \$4, according to quality and variety, Wm. Scott bringing the higher figure, and colors selling better as a rule than whites.

New Year's eve was a gala occasion at the residence of Mr. Wm. W. Edgar, at Waverly. This very popular gentleman has just returned from his bridal trip, and found on his return a handsomely furnished side-board, set up in his dining room with the congratulations and good wishes of his gardener and florist friends. The happy couple were "at home" on New Year's eve, and this occasion was selected as a fitting time to put the side-board into active service. Some forty of "the boys" with their ladies participated in the happy event, which will be long remembered as one of the merriest on record.

The schedule of prizes offered by the Mass. Horticultural Society for 1895 is all ready, and may be had on application to Secretary Manning. The amounts appropriated for regular prizes and gratuities during the year are as follows: For plants \$2,100, for flowers \$2,500, for fruits \$1,800, for vegetables \$1,150, for gardens, etc. \$500. For the large exhibitions of the society the following dates are announced: Spring Exhibition March 26 to 29, Rhododendron Show June 6 and 7, Rose and Strawberry Exhibition June 20 and 21, Annual Exhibition of Plants and Flowers September 4 and 5, Annual Exhibition of Fruits and Vegetables October 2 and 3, Exhibition of Chrysanthemums November 5 to 8. The annual convention and exhibition of the American Carnation Society will be held in these halls on February 21 and 22. Last Saturday a handsome collection of carnations in six varieties was staged by C. W. Ward of Queens, N. Y. Complimentary notices were awarded to two seedlings, named Bridesmaid and Meteor. In this connection we are inclined to remark that the selection for carnations of names which have already become identified with certain roses is unwise, and calculated to make confusion in the future.

Mrs. Jas. Rough Jr. died on December 31, after a long and painful illness. Mr. Rough is one of our most popular retail florists, and a large number of gentlemen identified with the trade took occasion to show their sympathy by attending the funeral, which took place on Wednesday, January 2.

Mr. C. M. Atkinson has resigned the

position held by him for many years as gardener in charge of the estate of John L. Gardner at Brookline, and will be succeeded by one of his under gardeners, Mr. Wm. Thatcher, a young Englishman of experience, formerly in the employ of the Duke of Westminster. Mr. Atkinson is a gardener of rare attainments, with few equals in the culture of hard-wooded greenhouse plants and other difficult subjects. Simultaneously with his laying down the implements of gardening he will assume the duties of married life once more. He proposes to spend the winter in the south, possibly visiting England at a later date.

There was an unusual glow of reflected sunlight or something of that sort in the vicinity of the stand occupied by Wm. M. Robertson at the growers' market on New Year's morning, which was duly accounted for when that gentleman blushingly acknowledged that there had been a wedding the night before, and that he was one of the happy principals.

The wife of Mr. Wm. Robinson of North Easton, who has been nursing a daughter sick with scarlet fever for several weeks, has now been stricken down with the same disease, and is seriously ill.

The January meeting of the Gardeners' and Florists' Club has been postponed until the evening of Tuesday, January 8.

New York.

The week succeeding Christmas has been exceedingly dull, one of the dulllest weeks of the season in fact. Receipts of flowers of all kinds have been heavy and considerably in excess of the market for same at quoted prices, and the overstock has been moved with difficulty and at unsatisfactory figures, as a rule, the only notable exception to the prevailing overproduction being the American Beauty rose. Of this much coveted stock there has been, and is, a decided shortage, first-class blooms bringing \$1 each, and being called for in quantities far in excess of the supply. Hybrids of good quality are coming in in moderate quantity, and are taken as second choice when American Beauties fall short. The best selected Meteor, La France and Testout have commanded as high as \$15 per hundred, but for the average run of roses figures have gone much lower, \$10 per hundred being considered top price and much of the average stock going as low as \$35 to \$40 per thousand when sold in quantity. New Year's did not bring much relief, and was in general very disappointing in its results. Many of the leading flower stores were closed up by 11 or 12 p. m. on the 31st, something unheard of in the former days, when New Year's was New York's greatest holiday.

There had been considerable stock hustled in on the 31st, and much of it laid over in the boxes as received until the following day, wholesalers finding it impossible to get it off their hands. Violets continued as in the previous week, too plentiful for the needs of the market, prices obtained ranging all the way from 50 cents to \$1.50 per hundred, and in rare cases for gilt edged stock \$2. Bulbous stock also went slowly. The first yellow narcissi were in for New Year's, and brought but \$4 per hundred. The weather being very cold an unusual amount of stock has been frozen in transit to the city. The disposition noted recently among the growers to fluctuate from one commission house to another continues without abatement, and quite a number of changes of this nature have occurred during the past week; wherein the advantage lies it is difficult to see.

The annual Christmas prize bowling contest of the Flatbush Bowling Club, wherein the participants roll for prizes that they know nothing about, came off at Bantel's Park Club House on the evening of December 27. Notwithstanding the very cold weather every member of the club with but two exceptions was on hand. Mr. Julius Kretchmar and A. T. De la Mare were present as invited guests. The customary "sight unseen" selection of trophies took place amid much hilarity, fickle fortune decreeing that most of the articles drawn should fall into the hands of the party for whose use they were least appropriate. A substantial lunch was served, and pleasant remarks were made by the various members, this part of the program being opened by the old veteran Mr. Chas. Zeller, who spoke feelingly of the unity and good fellowship which prevails among the Flatbush fraternity.

Mr. F. Schuyler Matthews has been examining with critical eye the new rose, Belle Siebrecht, and pronounces it a true pink, without any inter-mixture of other colors, a rare self color, most beautiful and rich. This rose seems to be a good keeper in regard to color, fading lighter with age, without showing an inclination to purple.

Nothing has yet been heard of F. B. Wenderoth, who disappeared December 10. Nor has anything developed which would in any way explain his disappearance.

Chicago.

New Year's as a red letter day in the florists' calendar is certainly a thing of the past. The transient business is no larger than on any good Saturday. If it hadn't been for the fact that a number of entertainments were held at the various clubs on New Year's eve, and a few good sized weddings New Year's day, the business would have been flat indeed. In the down town district particularly things were very quiet, a fair activity being most noticeable in stores located in the residence quarters; here in a few places there was an actual rush for a few hours. Taken collectively, however, the trade was very light. It is well on the whole that the demands made on the market were not heavier as the supply was also extremely light, particularly as regards carnations.

The most noticeable feature in the recent holiday trade was the marked increase in the demand for first-class quality of carnations. There is no question that this flower is gaining in public favor with marvelous strides. It is most gratifying to note also that the carnation growers in this section are fully alive to the importance of this question. In no other line has the improvement both in quantity and quality been so marked. Really fine whites have probably been the weakest on the list. Uncle John is certainly very fine, but so few flowers of this variety are grown around here that it really cuts no figure. Puritan, grown well in some places, is out of crop. The bulk consists of Silver Spray, fairly good in average but certainly not first-class. McGowan is good but rather indifferently grown. Mrs. Mailander, a promising new variety, is also off crop. This latter sort, a cross between McGowan and Hinze's White, though grown quite extensively by the originator has not as yet been disseminated, but we shall speak of this variety later. In reds the main bulk consists of Portia, which is fairly well grown by quite a number, and very poorly by others. When we say poor we mean small, since the color is always fine.



ARRANGED BY GALLAGHER FLORAL CO
ROSE BASKETS AT THE CHICAGO EXHIBITION

Violets had been picked very closely last week and consequently the supply was very light. Prices jumped up again to \$2 for good stock and ranged down to \$1.50 for fair to medium. Stevia, for which there is quite a lively demand this season, is all cut out. In bulbous stock the supply is unusually light. Some fairly good valley of this season's forcing is now coming in, but is as yet sadly lacking in foliage. Romans move much better than last season, at the same time the quality is very good and the supply but meagre. In tulips Proserpine is the only variety sent in in salable condition and these are very short. Scarlet Duc Van Thol are of no earthly use. One or two growers brought in some good poinsettias which sold well at \$1.50 to \$3 per dozen. It is something unusual to see an active demand for smilax; very little is grown around here at present and the stock is pretty well cut out. Really good mignonne finds a ready market, but the poorly grown stuff finds no buyers at all. Peters & Arnold, Damm Bros. and Stielow are cutting some fine spikes.

The demand for orchids, cattleyas in particular, is very lively and as now the regular season is on the demand will be increasing. Harrisii is in fair supply and of average good quality, which always find a ready market.

We are well pleased to note the fact that so far as has come to our notice there was no pickling of stock for once. Nor was any stuff which can not properly be called "pickled" held back unduly. If there was little or no stock on the market the early part of the week it was because there was none to be had. It is owing to these conditions that the high prices have steadily been maintained with hardly a break in any one line.

It is remarkable that in spite of the high prices shipments to outside points went out in a steady stream. Although there is more or less kicking as regards exorbitant prices, there is far less complaint as to the quality of stock than in former seasons.

Thos. C. Ruston is now with Wm. Blackman, Evansville, Ind.

Wm. E. Hearne recently passed through the city on his way to Belgium.

The annual meeting of the Hort. Society of Chicago will be held at the Sherman House January 12.

Philadelphia.

Although the trade has been quiet since Christmas there has not been an overplus of flowers, etc. Prices have not declined much as yet. Carnations have been scarce and prices very little below those of Christmas.

January 1 brought an extra demand, but this holiday has ceased to be much of a factor in the flower trade. There was quite a hustle for flowers, however, as the cold days of the past week when the thermometer was hugging zero made stock of all kinds scarce. The large teas brought \$12 to \$15, a few extra La France touching \$20. Small roses sold for \$6 to \$8, most of them bringing the latter figure. Beauties ranged from \$25 to \$60. Brunners brought \$60. Smith & Whiteley, Burton and Heacock are cutting Brunners. Anderson's first house will not be in before the 15th, when he expects a good crop.

Carnations have been in good demand, Daybreak leading in popularity. All good flowers sold readily at \$3, while the fancies brought \$4. Helen Keller, which seems to travel in a class by itself, was offered at \$8. Double violets were in

Chas. Hartwig was to the front again with a magnificent house of old Garfield; there is nothing the matter with this sort if you can manage to bring it into full crop for Christmas, but there is the rub. We have found this variety grown in any number of establishments but nowhere except at this one place did we see it in full crop; too late everywhere. All the pink varieties except Wilder are uniformly fine.

The supply of roses was just about equal to demand, except in Bridesmaid, Testouts and Meteors. As at Christmas

these three varieties sold short early in the day and twice the number could easily have been disposed of. Mermets had to be substituted largely for Bridesmaid to the great disappointment of the dealers. The Mermet by the way is improving considerably in color. Brides are still the most plentiful and under light demand weakened a little in price, at least as regards the off grades. First quality went at 12 to 15. Perles also declined a point or two, with 8 as the ruling figure. On the balance of the list prices held firmly at Christmas quotations.

demand at from \$1.50 to \$2. Valley, Romans and paper white moved lively at \$4 per hundred.

Blooming plants are scarce, there being but little assortment. J. W. Coffish has some begonias and *Harrisi* lilies in pots; nice plants. R. Craig's cyclamens are getting into shape and are full of bloom, a necessary requisite to a salable plant. There are also some primulas, but none of the celebrated Harris strain. Mr. Wm. K. says there is no money in primulas at less than \$3 per dozen for 6-inch pots, and so he dropped them. They have been a specialty with him for a long time for Christmas.

Chas. Fox has purchased a property on Broad street above Thompson, about one block south of his present location, which he will improve to suit his business and occupy some time next summer.

H. C. Sheaffer, on 7th below Chestnut, has sold his business to H. Waterer, who will continue at the old stand. K.

How to Lay out and Plant an Acre Plot for a Suburban Residence.

BY JOHN CURWEN, JR.

[Read before the Florists' Club of Philadelphia, December 11.]

While the subject does not especially interest all florists, it does interest those who, living and carrying on a general business in the neighborhood of the city an often called upon to do such work. And to these I address myself more particularly.

First let us select our ideal lot: In dimensions the width should be about one half the depth or 145x300 feet; the surface a little above the highway, gradually rising to the position the house is to occupy, and falling away again at the back and sides. The distance of the house from the highway is sometimes regulated in the conditions of sale or by village ordinance but should be not less than 60 to 75 feet from the middle of the highway. The house should stand towards one side or the other of the lot, as convenience, surroundings or the lay of the ground may determine. The position of the house being decided upon, the approach, whether by foot or carriage, must be planned so as to be most convenient and direct, consistent with graceful lines, remembering that whatever is appropriate is artistic, and therefore graceful, though as a rule curves are preferable to straight lines. If the approach is to be by carriage, bring the driveway in near the sideline, carrying it directly in front or to one side of the house as may be necessary, with the turn at the back of the house or at the stable if you have one. The stable should be as far from the house as the lot will permit (then it is too close sometimes) but allow access for supplies and removing manure, etc., unless there be a passage back of the lot.

But to return to the front; if a footpath is necessary, in addition to or in place of the driveway, the same principle will apply; it should be as direct as possible, without being obtrusive or stiff, for green sward is more pleasing to the eye than the best kept gravel. For the same reason the approaches must not be made wider than necessary, 3 feet to 3 feet 6 inches for the path, and 10 feet for the driveway. If the approach is laid out in a curve, there should be a real or apparent reason for it, in the shape of a tree or clump of bushes to go around or a steep grade to avoid.

So much for the laying out; now for the planting. But I have forgotten to speak of the sidewalk which all self-respecting suburbs should have. In most modern

villages there is a space of 10 to 12 feet between the curb and the fence or hedge; the walk should occupy about four feet of this, a foot nearer to the fence line than to the curb, and should be of uniform width and lasting material (concrete on a good foundation) in front of all the lots.

The street trees should be planted between this walk and the curb, and kept trimmed to a good height so as not to interfere with passers by. A list of desirable trees for this purpose was published in the horticultural papers some time ago by Mr. Meehan, than whom there is no better authority. Let me emphasize the desirability of having all the trees in the same street of one kind or of two kinds



CHRYSANTHEMUM MRS. POTTER PALMER

planted alternately; and another kind in another street. Tall shade trees should not be planted very close to the house, as they cause dampness in summer and the falling leaves stop up the rain conductors. Nor should they be too close to each other, for they will spoil one another when they grow; it is very hard to cut down a tree that you have planted and cared for, just when it is developing into a fine specimen. It is easier not to plant.

For this reason and others make haste slowly in planting a new place, for unless you have a very conscientious adviser you will find, when you become more familiar with trees and plants, and meet with something rare or especially desirable, that you will have no suitable place for it without crowding the others or encroaching on the lawn space, which you will find is not any too extensive on a one acre lot. Also remember not to plant out your desirable views when planting out undesirable ones. Plant the tall growing trees along the side lines, or to screen some unsightliness or the blazing sun of summer afternoon. Do not have these of only one or two kinds, for we Americans have the richest native flora of any country, I believe, to select from. Not to mention those trees, etc., from other countries, that will thrive here.

Probably the tree that is most generally popular is the sugar maple, followed closely by the Norway and silver maples. Native and foreign oaks are among the most desirable lawn trees, as many varieties grow quickly and none are very subject to disfiguring attacks of insects or diseases. Birches, beech, tulip tree, elm, ginkgo or maiden hair tree, and for lower growing kinds, dogwood, flowering thorns, white fringe, magnolias, double

flowered peaches and cherries, and many more. Evergreens should have a place too in front the other trees, a few pines and spruces with the little gems of *arborvitae* and *retinospora*.

Cluster the trees to a certain extent, but not so closely as to present full development, unless you want to form an especially shady nook, when it is a good idea to have several of one variety, or several varieties of one species planted close together. The space between the curve of the drive and the side fence is a good position for a shrubby bed, and on the corner, just at the entrance put a clump of *Hydrangea paniculata* or *Spiraea Thunbergii*. Other good positions for shrubbery are for a screen where a hedge would be too stiff to soften bare walls and fill in vacant corners.

Do not overlook the ornamental inconsidering the useful qualities of fruit trees. Who has not admired the snowy petals of the early cherry blossoms, and gone into raptures over the exquisite tints of the apple's buds and blooms or wondered at the masses of quince blossoms, the last of the tree fruits to bloom. Surely we must make the best use of all this beauty. Plant these at one side of the house towards the back, where they will make an effective screen for the drying ground. Apples, except the crabs, take up more room, by the time they are of bearing age, than we can spare, so pears will be the largest growing fruit trees we will plant; begin at the back, planting about 20 feet apart; peaches, cherries and apricots next and quinces in front of all.

The vegetable garden will begin at the back of the lot, and if there is no stable, extend the whole width, occupying as much ground as the size of the family will require. Plant only those things that always taste better freshly gathered out of one's own garden. Plant a wind break of evergreens on the north and west of the garden if there is no other protection on those sides. The sunny side of this hedge is the places for the hotbeds and frames for pansies and violets, and early vegetables. There should be a screen too on the side towards the house, unless the windbreak should happen to serve the purpose. On the house side of this screen is a fine place for the rose or hardy herbaceous border. A very pretty effect is given by having an opening in this hedge, with an arch over it either of the evergreen of the hedge, trained or of rustic work, with *Ampelopsis Veitchii* growing over it, with its gracefully trailing sprays. Opposite this arch, make a substantial path the full length of the garden and wide enough for a cart to travel on, to haul the manure for the garden etc., and to remove the rubbish.

If a great quantity of cut flowers is required through the summer, have a border of hardy and annual flowers on either side of this path on purpose for cutting; then the beds on the lawn will not have to be robbed of their beauty. Define the edge of the path with a box edging or golden honeysuckle trimmed very low, and back up the border with the grape trellis or dwarf fruits, for both flowers and fruits like high living and you will find a few plants, like pansies that like some shade through the summer.

[CONCLUDED NEXT WEEK.]

SING SING, N. Y.—Christmas trade was very good this year, with an increased demand for palms and flowering plants such as primulas, cyclamens, etc. More cash business than last year; weather very fine.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

SITUATION WANTED—By a gardener and florist; 20 years' experience. First-class references. Address J. J. P. O. Box 18, Riverdale, Ill.

SITUATION WANTED—By a single man in greenhouse; private or commercial; 4 years' experience; steady and reliable. A. J. care Am. Florist.

SITUATION WANTED—With seed house; 7 years' experience; capable of filling any position; reference furnished. AD KEYSTONE, care Am. Florist.

SITUATION WANTED—By February 1, as foreman in first-class commercial place; 11 years' experience; single. Address A. RASMUSSEN, 310 Liberty St., Warren, Pa.

SITUATION WANTED—By Jan. 15th by a young man in my employ, of 3 years' experience; a good all-round workman; not afraid of general florist work. GEO. L. GRAHAM, Bradford, Pa.

SITUATION WANTED—By a young man having 5 years' experience, to do general greenhouse work. The very best reference given. Address ILLINOIS, care American Florist.

SITUATION WANTED—By a second man, commercial or private place. Well experienced also in landscape gardening. Wages moderate. Best references. F. H. H., 135 Harrison Ave., Boston, Mass.

SITUATION WANTED—To any one wishing a first-class foreman for commercial place, we take pleasure in recommending a thoroughly practical man; single, age 29; now in our employ. Address HONAKER, Lexington, Ky.

SITUATION WANTED—By gardener; competent in growing all varieties of plants, violets, carnations, roses; also forcing fruits. Private place preferred. Married; age 35. Address GARDENER, 144 West Water St., Elmira, N. Y.

SITUATION WANTED—As headgardener, by first-class grower; 7 years European and 8 years American experience. Commercial or private; German, married. Address A. EISENHARDT, Sunnyside Greenhouses, Walden, N. Y.

SITUATION WANTED—By two competent florists with about 5 years' experience, would like a situation together in a large commercial place—vicinity of Chicago preferred. Can furnish good recommendations. Address A. B. care American Florist.

SITUATION WANTED—In a first-class commercial establishment as foreman or general manager by a practical seed grower and plantman who has had a life experience in commercial business, is a thorough grower of plants, roses and general cut flowers, and is thoroughly posted in nursery stock, fruit and ornamental trees, evergreens, shrubs, etc.; only those who require the services of such a man and pay the highest wages need answer. Best of references furnished from the largest commercial places in the country. Address A. B. C., 203 Columbus Ave., N. Y. City.

WANTED—Agent, by one of the oldest Dutch bulb houses. Particulars and references, address BULB, care American Florist.

WANTED—An assistant; must be quick at working among roses, etc.; \$5 per week and board. Address with reference and experience. WM. KIRKHAM, Maywood, Ill.

WANTED—To represent nursery, florist or bulb house. Will give use of elegant place of acres, greenhouse 18x30, finest storing and packing facilities, etc. Plenty scope for local trade. Security. Address EXPERIENCED FLORIST, Littleton, N. J.

WANTED—For vicinity of San Francisco, a thoroughly competent man to grow cut flowers, principally carnations, lilies and roses. Must well understand propagation, and take sole charge of 15,000 feet of glass. Best of references required as to reliability, honesty and sobriety. Address, stating wages expected and giving references, H. H. BERGER & Co., San Francisco, Cal.

FOR SALE CHEAP—Large second-hand florist's Ice Box, value about \$75. VAUGHAN'S SEED STORE, 88 State Street, Chicago.

FOR SALE CHEAP—Florist business, \$500 a year. In Pueblo, Colorado. Best trade in the city. Apply to PUEBLO FLORAL CO., 325 W. 9th St., Pueblo, Colo.

FOR SALE—A cut flower store in a city of twenty-five thousand inhabitants; no competition. An elegant chance for a seed-man. Address J. H. D., care American Florist, Chicago.

FOR SALE—Denn combined steam boiler and pump, 4-horse power, 1½ inch suction, 1¼-inch discharge pipe; good repair. Cost new \$500; price \$150. Write for particulars. C. E. ALLEN, Brattleboro, Vt.

FOR SALE CHEAP—And on easy terms, on account of dissolution of partnership, one of the best paying florist's places in the center of Chicago. Two new houses 10x12 feet, stocked with bedding plants. Long lease. Address CONTRACTOR, care American Florist, Chicago.

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"MRS. POTTER PALMER." (Seedling of Fred S. Walz, originator of "The Queen" and "H. L. Sunderbruch"), Winner of Columbian Medal, Chicago, 1893, for best pink seedling. Certificate at Indianapolis, 1894. I claim it to be the best pink, commercially, for cut flowers, and as valuable as "The Queen." Flowers large, full to the center, outer petals reflexed to stem with incurved tips, inner petals interlace and incurve to a fine globular form; color rosy pink, reverse silver, stem stiff, growth vigorous, unexcelled keeper.

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HYBRID PERPETUAL, MOSS AND CLIMBING.

In Splendid Assortment of leading varieties. Also Extra fine stock of following will be offered at very low rates while surplus lasts:

TREE ROSES—Holland grown, well rooted, good, heavy tops, in fine assortment.

AMPELOPSIS VEITCHII—Extra, 3 to 4 feet.

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TUBEROSES—Pearl and Double Italian, fine bulbs.

CALADIUM ESCULENTUM—9 to 10, 7 to 9 and 5 to 7 inch.

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OUR USUAL COMPLETE STOCK OF HARDY AND TENDER PLANTS, POT ROSES, SHRUBS, VINES, BULBS, FRUIT AND ORNAMENTAL TREES, GRAPE VINES, SMALL FRUITS, SEEDS, ETC.

41st YEAR. 1000 ACRES. 29 GREENHOUSES.

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Hybrid Perpetual Roses,

Worked low on the Manetti Stock, offer the best results to the florist, blooming freely and giving plenty of cuttings for propagating quickly. Fine plants for sale by the 100 or 1000, at low rates.

Price Lists to applicants. Address

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Tuberous
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Medal awarded World's Fair, Philadelphia, 1876. Finest Strain in the World.

SEED, choicest single & double 50c & \$1 each trade pkt.
BULBS, single variegata, from \$1.00 per 100.
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The hard times are going and so are the palms, but we can still supply 17, 3 and 4-in palms for \$3, and \$4 for \$5 cash (regular price \$8). These comprise the best varieties, including Lantanias, Kentias. JUST WHAT THE RETAILER WANTS.
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Some Fine New Roses.

NEW CLIMBING POLYANTHA, CRIMSON RAMBLER, the best Novelty of the season. \$25.00 per 100; \$3.50 per 12.

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50,000 YOUNG ROSES, strong 2-inch pot plants now ready. \$20.00 per 1000; \$2.50 per 100; our selection. See Am. Florist Dec. 1 for price of large Roses and from open ground.

VIOLETS Mar e Louise { 2-inch pot plants well in
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Clean, healthy stock.

MERMETS, BRIDES, MME. WATTEVILLE,
Strong plants, from 3-inch pots, \$5 per 100.

BRIDESMAIDS, METEORS,

Strong plants, 3-inch pots, \$6 per 100.

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No reduction made for large space.The Advertising Department of the AMERICAN
FLORIST is for Florists, Seedsmen, and dealers in
wares pertaining to those lines ONLY. Please to
remember it.

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

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

Address THE AMERICAN FLORIST CO., Chicago.

OBITUARY.

JOHN A. SHEPPARD.

John A. Sheppard, the only surviving son of the well known and oldest Lowell florist, Edwin Sheppard, died at his home in Lowell, Mass., Tuesday, January 1, 1895.

His loss will be keenly felt by his large circle of intimate and business friends, both in Lowell and Boston, where he was well known and appreciated for his active business ability and thorough knowledge as regards floriculture and its advancement, which he firmly believed in.

Great sympathy is extended to his wife and father for he was their all, being the last one of a family of three brothers, sister and mother, all succumbing to the same dreaded disease, consumption.

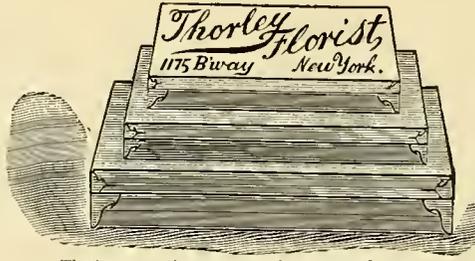
Mr. Sheppard was 37 years old, born in Lowell and graduated with high honors from the grammar and high schools. His natural taste in business was the cultivation of flowers, but as his two brothers were with their father, he learned railroad engineering, and at their death, about seven years ago, returned home and started in business with his father, styling the firm, E. Sheppard & Son. Owing to Mr. Edwin Sheppard's advanced years the management has devolved upon his son, whose sterling integrity and indomitable pluck, has greatly increased the volume of business. Shortly afterwards he was married; he leaves no children. He was a prominent member of many social orders and high up in the Masons, Odd Fellows, Elks and Knights of Pythias.

Funeral took place Friday, January 4 from his father's home on Fairmount street, Lowell, Mass. J. W. HOWARD.

HON. MORRIS. R. JONES.

Hon. Morris R. Jones, a well known florist and esteemed citizen of Rome, N. Y., died at his home on North George street on Wednesday, December 26, aged 60 years. He came here from Wales at the age of 20 and soon secured a situation as gardener in charge of the greenhouses and grounds of the late Edw. Huntington and afterwards had the care of the grounds of B. N. Huntington, a position which he retained until about 20 years ago when he established himself as a florist. Mr. Jones was a model citizen, a man of integrity and kindly disposition. His loss will be deeply felt and his memory cherished by all who knew him.

THE CHRISTMAS TRADE reports that appear in this issue, and those printed last week, make very cheerful reading, in view of the times. With the prevailing business depression it would have been gratifying had the trade only held its own, and to be able to report the usual annual increase is a very great pleasure.



The boxes as they appear when set up for use.

We make them in a sufficient number of sizes, including for violets, to meet all necessary requirements.

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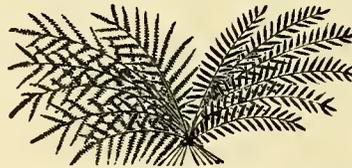
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SPHAGNUM MOSS IN ANY QUANTITY.

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15 Cents per String.

Elegant Stock Now Ready.

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CITY FLORIST.—A copy of your communication has been forwarded to each of the firms named.

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Asparagus Plumosus Nanus.

Cut Strings, 8 to 10 feet long,

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" " fancy.....		3.00@ 4.00
" short.....		1.00@ 1.50
Valley.....		4.00@ 5.00
Romans.....		3.00@ 4.00
Violets.....		1.00@ 2.00
Harrisll.....		10.00@12.00
Mignonette.....		3.00@ 5.00
Orchids, cattleyas.....		50.00
" cypripediums.....		25.00
Smilax.....		12.00@15.00

Roses, Beauties.....	BUFFALO, Jan. 2.	25.00@35.00
" Mermets, Bride.....		8.00@12.00
" Bridesmaid.....		8.00@12.00
" Meteor.....		10.00@15.00
" Perles, Hoste, Cusin.....		6.00@10.00
Callas, Harrisll.....		10.00@15.00
Carnations, long.....		2.50@ 3.50
" short.....		1.00@ 1.25
" Daybreak.....		3.50
Valley.....		4.00
Romans.....		3.00@ 4.00
Violets.....		1.00@ 2.00
Tulps.....		4.00

GEORGE A. SUTHERLAND,
 Successor to PECK & SUTHERLAND,
 Successors to WM. J. STEWART.
Cut Flowers AND Florists' Supplies
WHOLESALE.
 67 Bromfield St., **BOSTON, MASS.**
 New England Agent for the GREAT ANTIPEST.

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METS,
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 ALWAYS ON HAND.
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THE LEADING FAVORITES:
American Beauty,
Bridesmaid,
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Testout,
 And all other desirable roses, grown especially for first-class trade.

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Roses Shipped to all points. Price list on application.

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WHOLESALE • FLORIST.

Careful Shipping to all parts of the country.
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FINE ROSES
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FLORIST,
 111 WEST 30TH STREET,
 NEW YORK CITY.
 Established 1879.

FRANK MILLANG,
WHOLESALE FLORIST
 408 East 34th Street,
 NEW YORK.
 ESTABLISHED 1884.

ⓂRe Seed Trade.

AM. SEED TRADE ASSOCIATION.

D. I. BUSHNELL, St. Louis, president; S. E. BRIGGS Toronto, 1st vice-president; A. L. DON, 114 Chambers street, New York, secretary and treasurer.

MR. CHAS. P. BRASLAN is in New York City in attendance at the meeting of the Executive Committee of the American Seed Trade Association.

BERLIN, GERMANY.—F. J. M. Plumpe, editor of *Der Gartenbau*, died November 12.

Bone Meal.

Mr. Robert Simpson in his essay on fertilizers read before the convention at Atlantic City says: "There is danger from bone meal in the greenhouse if it has come in contact with acid." And mentions a gentleman having lost \$2,000 worth of roses at one time through its use. Did Mr. Simpson mean bone that has been reduced with sulphuric acid to make the phosphoric acid more available? This fertilizer, dissolved bone or bone superphosphate has been in general use for years, but I have never before heard of it being harmful to plants or seen any ill effect from its use in the garden. How do rose plants show the injury?

Hamilton, Ont. CHAS. M. WEBSTER.

Replying to Mr. Webster's criticism, I would say that I consider bone cut with acids of any kind in process of preparation, altogether too risky an article for a florist to use in his greenhouse benches. I am well aware it is used regularly on the farm and in the garden with good results but there is a vast difference between the way it is used on the open ground, and as generally used for greenhouse crops.

In using bone meal for roses and other plants grown on benches we have used about 200 pounds to 100 running feet, taking a regular three-quarter span rose house which averages from 18 to 20 feet in width; this would give about one pound of bone to every 2½ cubic feet of soil; it is safe to say that bone is never applied in such proportions out of doors, consequently there is less risk in using an inferior or adulterated article. The freer circulation of air, etc., too would be an additional safeguard in the field.

Am glad to say I have been fortunate enough to escape trouble from this source but I have known several less fortunate growers. Only this fall a florist in this state wrote me to the effect that bone meal had ruined all his roses, and it was only after the plants were lifted and put into soil free from bone that they would make any growth whatever.

The gentleman I mentioned in the article referred to, as having lost \$2,000 worth of new roses on one occasion from bone cut with acid was the late Mr. Myron A. Hunt, who I know was a very careful and intelligent cultivator of the rose, and one who certainly knew what he was writing about.

If it were necessary instances of this kind might be multiplied, but I think the average florist has enough enemies to fight and perplexities to puzzle out in his business, when he does his level best to avoid them, without being desirous of running unnecessary risk, by using an impure article in his soil when the genuine thing can be obtained at the same price.

ROBERT SIMPSON.

Culture Leaflets



A series of single-sheet instructions on the main plants, including Roses, Chrysanthemums, Tuberosus Begonias, Cannas, Palms, Lilies, Pansies, Foliage Plants, etc., etc.

Save lies, jaw wear and dissatisfaction if used with counter and greenhouse sales; insure proper treatment if shipped with plants. Don't cost much, either; send for samples, and you'll want a lot.

We make Red-Leaf Labels—
... 7 Styles and Sizes ...

J. Horace McFarland Co.,
HARRISBURG, PA.

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THE
SEED
TRADE**

**ONION SETS,
SWEET PEAS**

Vaughan's Seed Store,
New York: CHICAGO:
26 Barclay Street. 146-48 W. Washington St.

AND A GENERAL LINE OF FLOWER SEEDS, GARDEN TOOLS, ETC.

THE BROWN BAG-FILLING MACHINE CO.,
MANUFACTURERS OF
AUTOMATIC MACHINES FOR PUTTING UP SEEDS,
FITCHBURG, MASS.

Florists' Seeds

in the choicest strains, and Spring bulbs quoted in our new Trade List for 1895, now ready and mailed free on application.

Address **August Rölker & Sons,**
P. O. Station E, NEW YORK.

When writing mention the AMERICAN FLORIST

OSCAR KNOPFF & CO.
Seed Growers, Erfurt, Germany.

FLOWER, KITCHEN GARDEN, ETC. SEEDS.
Lily of the Valley Bulbs, best qualities at low prices. Orders promptly executed.
Medals awarded at World's Columbian Exposition, Chicago, and Mid-Winter Exhibition, San Francisco.
Sole Agents for United States and Canada:
C. B. RICHARD & CO., 61 Broadway, N. Y.
Trade Catalogue for 1895 free on application.

Michel Plant and Bulb Co.,
WHOLESALE FLORISTS,
ST. LOUIS, MO.

WE SELL SEEDS
Florists' Flower Seeds and Sweet Peas a specialty. Highest quality. Special prices
WEEBER & DON,
Seed Merchants and Growers,
114 Chambers Street, NEW YORK.

SOMETHING OF INTEREST
TO
Market Gardeners and Truckers
to be had for the asking. Write now for it.
Address **JOHNSON & STOKES, Seedsmen,**
217 & 219 Market St., Philadelphia, Pa.

MALDEN, MASS.—John Walsh & Son have opened a retail florist store here. Mr. Frank J. Walsh will be in charge.

NASHVILLE, TENN.—Joy & Son have put in another 20-horse power boiler. They have added 11,000 feet of glass during the past year, mostly for roses for cut flowers.

FLOWER SEEDS.

NEW CROP AND CHOICEST STRAIN.
Trd. Pkt.
SWEET ALYSSUM, oz. 10c. 10c
ASTER, in variety and separate colors 25c
CENTAUREA CANDIDISSIMA 25c
" GYMNOCARPA 15c
CYCLAMEN, large flowering, white, dark red, light red, mixed 50c
LOBELIA, CRYSTAL PALACE COMPACTA and other varieties 25c
MIGNONETTE, MACHET, oz. 50c. 10c
VERBENA, Mam, mixed and separate colors 25c
SWEET PEAS. Named sorts. (Send for list.)
Send address for our Annual Catalogue and Special Gardeners' List of Vegetable Seeds; ready early in January.

W. W. BARNARD & CO.,
Store, 10 N. Clark St. CHICAGO.
Warehouse and Office, 186 E. Kinzie St.,

CHOICE
FLOWER SEEDS FOR FLORISTS
Our Specialty.
Fresh seed just arrived. New crop Sweet Peas just received.
Price List for florists free on application.

HERRMANN'S SEED STORE,
413 EAST 34TH STREET,
Near Long Island Ferry, NEW YORK.



New Catalogue (No. 4) containing over 1,000 Ornamental Cuts for Florist's use, such as envelopes, letter heads, bill-heads, cards, advcers., floral designs, etc., at from 30c. and upwards. Price of Catalogue 25 cts. (deducted from \$1 order).

A. BLANC,
Engraver for Florists,
PHILADELPHIA, PA.

BULBS.
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ENGLEWOOD, N. J.
SELL ALL KINDS CHEAP.
Mention American Florist.

ELLIS & POLLWORTH,

(Formerly Managers Wisconsin Flower Exchange),

Cut Flower Growers' Agents

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WE MAKE OUR OWN WIRE WORK.

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Phone 1273.

386 Broadway, MILWAUKEE, WIS.

Having severed our connection with the Wisconsin Flower Exchange, we beg to announce that we are open for business at the above number, and are prepared to meet all demands made upon us for first-class stock in our usual prompt manner.

LARGE STOCK ROSES, CARNATIONS, Etc., Etc. VIOLETS—We have several "Violet Kings" on our list of growers and are making a specialty of this flower.

CONSIGNMENTS OF FIRST-CLASS FLOWERS SOLICITED. PROMPT CHECK WITH ITEMIZED REPORT OF SALES EACH WEEK.

No Retail Dealer or Grower is in any way connected with this firm; thus insuring fair treatment.

NO PARTIALITY. GIVE US A TRIAL.

Respectfully yours,

**W. H. ELLIS.
C. C. POLLWORTH.**

FOR A
**PROFITABLE
GARDEN
SOW
BUIST'S
PRIZE MEDAL
SEEDS**

Our Garden Guide, 160 pages, also Market Gardeners' Quarterly, which gives our Wholesale Prices to Gardeners, mailed free.
**ROBERT BUIST,
Seed Grower, PHILADELPHIA, PA.**



FROM JAPAN.—Bulbs, Seeds, Trees, Palms, Etc.
FROM AUSTRALIA.—Araucarias, Palm Seeds, Etc.
FROM CALIFORNIA.—Bulbs, Seeds, Trees, Etc.

Orders booked up to Dec. 1 for Cycas Revoluta Stems. Send for our new and interesting Catalogue '94-'95.

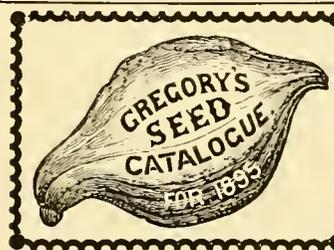
H. H. BERGER & CO.,
(Established 1878.) SAN FRANCISCO, CAL.
Oldest and most reliable import house.

**READY NOW.
Black Calla Bulbs**

Extra size, \$10.00 per 100.

CASH WITH ORDER.

**CHAS. SCHWAKE,
NEW YORK.**
404 E. 34th Street,
Mention American Florist.



THE most successful farmers and gardeners buy their seed directly from the growers; for this reason we raise largely the most risky kinds, especially Cabbage and Onion Seed. This latter is extra fine this season. No catalogue contains more varieties of vegetable seed, and none more of the new that are really good—see outside cover for an illustrated selection from our new specialties, which we will sell at half rates. Catalogue free.

**J. J. H. GREGORY & SON, Seed Growers,
MARBLEHEAD, MASS.**

COPPERDINE

And Bordeaux Mixture.

I sell these at manufacturers prices. Also Tobacco Stems, Tobacco Dust and all other Insecticides. Clay's Fertilizer a specialty. Why pay big prices to others when you can get it direct of the importer. Try me on Guano. **G. C. WATSON, Philadelphia,** Seeds, Bulbs and Plants (Wholesale only), 1025 ARCH ST.

Cox Seed & Plant Co.

SAN FRANCISCO, CAL.,

Seed Growers

AND NURSERYMEN.

Contract Price List on application. . . .

SEEDS

Of all kinds, true to name and fresh.

Jos. F. Dickmann,

1110 N. Third St., and Gravois and Oregon Ave.,
Send for my New Catalogue, FREE. St. Louis, Mo.

Leave

Doubtful Seeds alone. The best are easy to get, and cost no more. Ask your dealer for

**FERRY'S
SEEDS**

Always the best. Known everywhere. Ferry's Seed Annual for 1895 tells you what, how, and when to plant. Sent Free. Get it. Address **D. M. FERRY & CO.,** Detroit, Mich.

VERBENAS Transplanted Cuttings \$8 per 1000; \$1 per 100. Rooted, \$6 per 1000. Plants, \$2 per 100. All clean and true to color. Satisfaction guaranteed, and safe arrival.
W. B. WOODRUFF, Florist, Westfield, N. J.

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

Baltimore.

New Year was bright and beautiful but business was very little ahead of any ordinary week day in winter, when the skies are clear. Whether the customers had bought themselves poor Christmas, or were so busy making good resolutions that they had no time for buying flowers, or the frosty air daunted them, or they were all up so late December 31, that January 1 went by before they knew it, or some other equally weighty reason held them, no one perhaps can certainly say, but certain it is that the first day of the year is neither better nor worse in any marked degree, barring the weather, than dozens of days before and after it as far as the sale of flowers and plants is concerned.

The delightful weather which we so much enjoyed Christmas was succeeded by a driving snow storm next day, and on Friday night the mercury had such a fall that it must have been stunned, for it has only made the feeblest kind of efforts to get up again, so we have everything covered with ice and snow and frost in the air even under cloudless mid-day skies, and perfect sleighing and beautiful skating but nothing very extraordinary in the way of business to chronicle this time. "Always a calm after a storm," say the old stagers, and no doubt they are right.

Stock is still plentiful and of fairly good quality, at least as far as roses are concerned. Carnations though are scarce, and violets becoming more so.

Some one in the club once raised the question whether it was right that flowers should be sold in dry goods stores, as one of our enterprising Hebrew merchants was running a plant counter. The general feeling seemed to be against it, and the practice apparently was not profitable for it soon lapsed, but a new departure was started recently out Charles street above North avenue where on one side of the street may be seen a barber shop with "choice flowers for sale" and a lot of miscellaneous plants standing about; and on the other side a confectionery with much the same display. It gives rise to a rather curious question or rather series of questions. If the proprietors of the shops buy the stock to sell again how can they possibly make it pay them? If the owners of the flowers bring them there and sell them having too small a supply to run a store themselves, it seems that a more profitable plan would be to find some regular customer at wholesale or take a stall in market. The same thing has been seen in several places, mostly small towns unable to support a regular florist, but a report as to the profitableness of the plan has never appeared. Will some kind friend having experience give a little light on the subject? A gentleman who shared his store with a mineral water man here, has abandoned the plan and is now occupying the entire store, but the two cases mentioned seem to indicate that there are believers in the hybrid business still.

MACK.

A Christmas Order.

The following order was received by Mr. Wm. Blackman of Evansville, Ind., December 24.

Dear Sir:—Enclosed find order for 30 cents for which please send me some white roses and a little smilax. If you haven't the white, send cream or pink. Please send late this evening, so as to get here on to-night's or rather morning train, as I wish them fresh to-morrow. Send by mail, and greatly oblige.

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

Carnations, Ready Now

	PER 100.	PER 1000.
WM. SCOTT, from sand	=	\$3.00 \$25.00
LIZZIE MCGOWAN, from sand		2.50 20.00

The above varieties are from special selected stock. Plants from soil will be ready February 15th.

CHARLES H. ALLEN,

Please send cash with order. FLORAL PARK, N. Y.

"THE CARNATIONS."

WM. SCOTT, Rooted Cuttings.....	Per 100	Per 1000	DAYBREAK, Rooted Cuttings.....	Per 100	Per 1000
LIZZIE MCGOWAN, Rooted Cuttings..	\$3.00	\$25.00	ALBERTINI, Rooted Cuttings.....	\$2.50	\$20.00
TIDAL WAVE, Rooted Cuttings.....	2.50	20.00	BOUTON D'OR, Rooted Cuttings.....	3.00	25.00

Of the above lot we are booking orders for early delivery. We have some Wm. Scott now ready. We call particular attention to our stock of Wm. Scott, which is extra fine. Lizzie McGowan, the best we have ever seen. Tidal Wave does particularly well with us and is remarkably good. The other varieties we offer are also in fine condition. As we have the control of JEROME A. SUYDAM & CO'S stock, together with our own, it will compare favorably with any yet offered. Special prices on 10,000 lots. CASH WITH ALL ORDERS.

DAILLEDOUZE BROS., FLATBUSH, BROOKLYN, N. Y.

CHITTY'S NEW PRIZE CARNATIONS For 1895.

ALASKA—The Best and purest white ever offered.

CORSAIR—The scarlet McGowan.

MAGNET—Beautiful magenta rose.

LITTLE GEM—The dwarf J. J. Harrison.

MINNIE COOK—Superb variegated sort.

See full page illustrated advertisement of above in American Florist December 1st and 8th.

FOR DESCRIPTIVE WHOLESALE PRICE LIST

ADDRESS **H. E. GHITTY,**
PATERSON, N. J.

CYCAS REVOLUTA.

Orders booked now for fresh imported stems, fronds and roots cut off; best long-leaved variety. Delivery Feb. 1st to April. Cultivated Cycas always on hand, rooted and well established

Lil. Auratum, Spec. Rubrum and Album, Etc.
Iris Kämpferi, in 100 choice varieties.
Japanese Maples, in best varieties.
Camellias, Pæonies, Tree Ferns, Raphis, Etc.
Araucaria excelsa, choice cultivated stock at lowest prices.
For general Japanese stock apply to

F. Gonzalez & Co.,
303 to 312 Wayne St., SAN FRANCISCO, CAL.
Mention American Florist.

DO YOU WANT the census statistics regarding the florist, nursery and seed trades? You will find them in our trade directory and reference book for 1894. Price \$2.00.

YOU CAN never invest \$2 to better advantage than in a copy of our trade directory and reference book.

WANTED!

A good, free blooming, healthy, vigorous **Yellow Carnation**. Flowers must be perfect, of fair size and borne on long, stiff stems. There must be plenty of pips, and these easily rooted.

AND HERE IT IS—Any one of the following will fill the bill:

ELDORADO—Pure yellow ground edged with light pink. Picotee marking.

KITTY CLOVER—Light yellow striped red with a little white.

EULALIE—Yellow ground penciled with pink.

We also offer this year

PRINCESS BONNIE—A beautiful pink variegated flower of large size; and
DAISY BELL—A white, variegated similar to Chester Pride, but very much larger flower.

Send for general price list of both Carnations and Coleus.

W. R. SHELMIRE,
AVONDALE, Chester Co., PA.

NOW is the time VERBENA SEEDS to plant

The progressive kind will meet your needs, and make a grand sensation; 'Tis the kind that spans the silver half and makes progressive Florists laugh, and saves them much vexation.

New crop now ready. None but the best XXX seed offered. Will produce some grand novelties. We've had florets 1 1/4 inches across. First Premium at Mt. Holly Fair this year. 1/4 oz. 10c; 1/2 oz. \$1; trial pkt. 10c.

Hand hybridized Double Petunias, Dreeer's; none better. 500 seeds 6c; 1000 seeds \$1.00.

Single fringed, Dreeer's and California Giant blended, saved from the most magnificent showy varieties in cultivation. 500 seeds 30c; 1000 seeds 50c.

Dwarf French Gold striped Marigold, makes nice pot plants for spring sales. Trade pkt. 25c.

Dwarf Marguerite Carnation, all saved from fine double flowers. Trade pkt. 25c. Lots of other good things. Novelty price list, free to all. Cash with order please. Address

J. C. GIBSON, WOODBURY, N. J.

	Per 100
3000 GERANIUMS,	at \$4.00
2000 BEGONIAS,	at 4.00
2000 PANSIES,	at .20
2000 COLEUS,	at .30

This offer is only good for thirty days. Accept it at once.

I. N. MARSH, Orchard, O.

Clematis Jackmanni.

One year, nice dormant stock, for putting up for Spring sales, \$2.00 per dozen; \$12.00 per 100. All home grown.

F. A. BALLER, Bloomington, Ill.

The * New * Scarlet * Carnation LIZZIE GILBERT.

Undoubtedly the finest scarlet yet introduced. Bright scarlet, strong grower, good long stem, does not break the calyx, is fragrant, early, and NOT A CROPPER.

Dr. L. L. Lamborn, Alliance, O., writes Dec. 20, '94 of Lizzie Gilbert as follows:

"I have all of the sixteen varieties of carnations introduced in 1894 now blooming, and some of them are sterling sorts, also Lizzie Gilbert, the famous scarlet to be offered the coming spring. If I were compelled to save but one of the lot I would sacrifice all for Gilbert. Portia has long held the boards against all comers as the queen of scarlets, but the marvelous development of carnations has comparatively further dwarfed its naturally diminutive flower until it is now refused in critical markets.

"The advent of Lizzie Gilbert is most opportune. It steps upon the dais with the air of a conqueror and dons upon its magnificent corolla a crown of scarlet which rivarly will not disturb for twenty years to come."

L. L. LAMBORN.

We are now booking orders for Rooted Cuttings of this grand Carnation for delivery commencing February 15th.

Price, per 1000 Rooted Cuttings, \$80.00; per 100, \$10.00.

250 at thousand rates; 25 at hundred rates.

L. L. LAMBORN, Sr., Alliance, Ohio.

Sole Eastern Agent for the sale of LIZZIE GILBERT.

ELLIS & POLLWORTH, Box 75, Milwaukee, Wis.

CARNATIONS

READY NOW.

Rooted Cuttings, that are guaranteed well rooted and perfectly healthy. If they are not you can ship them back and have your money returned.

Write for prices, stating how many you will want of each variety and when they are to be delivered. I think we can make a satisfactory deal together.

List of varieties on application.

ALBERT M. HERR,
L. B. 496. **LANCASTER, PA.**

THE COTTAGE GARDENS,

Queens, Long Island, N. Y.

WHOLESALE CARNATIONS.

New Carnations our Specialty

**FRED. DORNER & SON,
FLORISTS,**

LA FAYETTE, : : INDIANA.

CARNATIONS

ROOTED CUTTINGS

now ready, of desirable kinds for EARLY SUMMER BLOOMING.

Seedlings, Novelties and Standard sorts in season.

C. J. PENNOCK,
The Pines. **KENNETT SQUARE, Chester Co., Pa.**

Booking Orders NOW

— FOR —

WILLIAM SCOTT, Per 100 Per 1000
\$3.00 \$25.00

Strong **HEALTHY** plants FROM THE SOIL for early SPRING DELIVERY.

MRS. FISHER, For Summer Blooming
Ready NOW.

Per 100, \$2.00, Per 1000, \$15.00.

Send for price list of other

NEW AND TESTED CARNATIONS.

FISHER & AIRD,
Norfolk Co. **ELLIS, MASS.**

Carnation Cuttings

NEW AND OLD VARIETIES.

Good, healthy stock, well rooted, ready by January 1st, 1895.

Rooted Cuttings **GIANT DOUBLE ALYSSUM, VIOLETS, COLEUS, ETC.** Write for prices.

E. J. CLOUD, Avondale, Chester Co., Pa.

FOSTITE, A PERFECT REMEDY to

Mildew on Roses and Carnation Rust.

Joosten's Magazine Bellows, the best out.

Fostite, 25 lbs. \$2.00, Bellows \$3.50, Cash with order.

Sold by all dealers and by
C. H. JOOSTEN, 3 Coenties Slip, New York.

CARNATIONS.

Rooted Cuttings. Young Plants. Field-Grown Plants in season. Send for prices.

Geo. Hancock & Son, Grand Haven, Mich.

MAIL LOCK THE DOOR BEFORE THE HORSE IS STOLEN DO IT NOW.

JOHN G. ESLER, Sec'y, F. H. A., Saddle River, N. J.

OPHELIA.

A large pink CARNATION, a little darker than Scott. Winner of Craig cup for best seedling at Philadelphia, in spring of '93; will be ready for distribution Feb. 1st, at \$10.00 per 100; \$80.00 per 1000. ~~\$2~~ Those wishing to list it please write.

MOST LEADING VARIETIES READY AT SAME TIME.

MRS. FISHER.

(For summer blooming), now ready, from soil, at \$12.50 per 1000.

LADY CAMPBELL VIOLET, Rooted Runners ready, at \$2.00 per 100; \$15.00 per 1000.

EDW. SWAYNE, Kennett Square, Pa.
Mention American Florist.

50,000 Carnations.

ROOTED CUTTINGS.

Ready January 1st. Positively no Rust.

Send for Price List.

Wm. Swayne,
P. O. Box 236. **KENNETT SQUARE, PA.**

CARNATIONS

50,000 Rooted Cuttings.

Clean and healthy, now ready, including Wm. Scott and other profitable varieties.

Send for price list to

JAMES HORAN & SON, Bridgeport, Conn.

CARNATIONS.

ROOTED CUTTINGS.

Will take orders from Jan. 1st to April.

Helen Keller, Bonton d'Or.....\$ 5.00 per 100

Wm. Scott, Albertnl..... 20.00 per 1000

Daybreak 15.00 per 1000

McGowan, Silver Spray, White Wings 20.00 per 1000

A. T. JACKSON,
Station X, CHICAGO.

FLORISTS' FLOWER SEEDS

FOR EARLY SOWING.

An extract from our 1895 Flower Seed List.

	Trade Pkt.	oz.	lb.		Trade Pkt.	oz.	lb.		Trade Pkt.	oz.	lb.
Agathea Collestis , Blue Daisy, a splendid pot plant, blooms summer and winter	.15			Mimulus Moschatus , Musk Plant	.10			Smlax , new crop	.10	.40	4.50
Ampelopsis Vitifolia	\$.20	\$2.00		Moschatus Compactus, dwarf	.25			Sweet Peas , large flowering sorts	.10		.80
Alyssum , sweet	.05	.10		Magnomette Machet, select stock	.10	.50		Alba Magnific	.10		.70
Begonia , Vernon, a splendid bedding sort, ever-bloomer	.10			Chibele, extra thick spike	.10			Blanche Ferry, best pink, forcos	.10		.80
Browallia , mixed	.10	.60		Giant Red , new	.15			Boreatton, rich bronzy crimson	.10		.65
Candytuft , White Rocket	.05	.10	.60	Musa rosacea , 100 seeds, 75c.				Butterfly, white laced with lavender	.10		.60
Empress	.10	.30		Nasturtium , tall, mixed	.05	.15	1.20	Cardinal, best deep scarlet	.10		.65
Canna , Crozy's Hybrids, best mixed	.10	.25	2.50	dwarf, mixed	.05	.15	1.50	Emily Henderson , white, force			
Carnation , Riviera Market, a splendid sort for winter blooming, comes true from seed and blooms as early as the Margaret carnation	.25			Oxalis Tropaeoloides	.25		.60	Ise Eckford, pink, shaded carmine			1.50
Mme. Guillaud , double yellow	.50			Chicago Parks mixture		1.00		Lemon Queen, best yellow	.15		
Margaret	.25			Giant mixture, ¼ oz., \$1.00	.25		2.00	Lottie Eckford , white, blue border			.70
Centaurea candidissima , Dusty Miller	.30	1.25		100 Trimardeau	.10			Mrs. Sankey, largest pure white	.10		.85
Gymnocarpa	.15	.50		Vaughan's International Mixture, ¼ oz., \$1.60	.50			Nellie James, pink, early true	.10		.75
Colens , mammoth-leaved, a splendid mixture	.25			For other colors, etc., see our Book for Florists				Orange Prince	.10		.75
Cyclamen , Giant mixed, ¼ oz., \$2.00	.50			Passiflora alba	.25			Primrose	.10		.75
Cyperus Alternifolius	.20			Petunia Hybrid , single, extra fine mixed	.10	.60		Queen of England, white	.10		.75
Daisy , Longfellow, double pink	.25			Imitable, blotched and striped	.10	.75		Splendor, large rose shaded crimson	.10		.75
Daisy , Longfellow, double pink	.25			Dwarf Imitable, for pots	.25			Eckford's new Sweet Peas , Mixed, includes besides all the above sorts at least 25 more kinds, all colors mixed, 100 lbs., \$25.00	.10	.60	
Snowball , double white	.25			Large flowering , extra choice mixed	.25			Timber, mixed	.10	.25	3.00
Vaughan's Mammoth , best mixture of largest flowers	.25			Superbissima, finest strain	.50			Torenia Fournieri compacta	.25		
Vaughan's Mammoth White , Double, extra choice mixed	.50			Fringed, finest mixed	.50			White Wings	.25		
Dracena Indivisa Lineata	.10	.25	2.50	Double large flower ing, best	1.00			Verbena Hybrid , fine mixed	.15	1.25	
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Euphorbia Heterophylla	.25			Fern-leaved	.15	1.00		Defiance, brightest scarlet	.25	3.00	
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Crystal Palace compacta	.25	3.00		One pkt. of the above 6 for \$1.20	.25			Fordhook Mammoth, new	.15		
White Gem , compact	.25			Snowflake , dbl. white for forcing	.25			Vinca Rosea , pink	.10		
Emperor William , dwarf	.20			Princess May , new, yellow, the earliest of all	.25			Rosea Flora Alba, pink white eye	.10		
Matricaria capensis , fl. pl., double white Feverfew	.10	.40		Parisian Forcing , a new and very early sort, makes fine pot plants, white, pink and red, each	.25			Rosea alba pura, pure white	.10		
Maurandia , mixed	.25			Dwarf Queen , blood-red, a new sort, excellent for pots	.25			Mixed	.15		

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Giant Market and Fancy Pansy.
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TRADE PACKETS \$1.00 EACH.
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Strong 2 1/2-inch pots, 50c. per dozen; \$3.00 per hundred.
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Palms,
ORCHIDS,
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The Best and Largest Stock in the World.
New & Rare Foliage & Flowering Plants.
A grand selection for Stove, Greenhouse and Conservatory.
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WANTED.
Offers of nursery-grown TREES and SHRUBBERY, at low prices; trees to be from one to three inches in diameter; shrubs to be bushy, and not less than three feet high. Give lists of kinds, sizes and prices.
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GARDEN SEEDS,
Plants, Bulbs & Requisites. They are the best at the lowest prices. Trade List issued quarterly, mailed free to the trade only.
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The Jennings Strain of Large Flowering and Fancy Pansies. Held-grown, nice stocky little plants—cold frame size.
THE FINEST STRAIN is what every florist wants. I think you will find mine as good as the best. Stock carried in cold frames, and orders filled any time. 100 by mail 60 cts; 1000 by express \$5 00; 5000 \$20. Finest mixed seed of above Pansies, pkt., 2500 seeds, \$1; per oz. \$8. Yellow same price. Cash with order.
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Wholesale Florists
RICHMOND, INDIANA.

Cincinnati.

The annual meeting of the Cincinnati Florists' Society for the election of a board of directors will take place at the rooms of the society, January 12.

We are having some winter at last. The day after Christmas there came a snow storm worthy of the name and it is staying with us. The weather has been cloudy and flowers are scarce. Trade, both wholesale and retail, is very brisk. The cry of "sold out" has been an oft repeated one.

Mr. Hardesty had a fine display of orchid blooms in his window and Peterson had a few fine blooms of his own growing. The demand here for orchids is very limited as yet, but we hope a persistent display of them will educate the flower buying public and create a demand.

Many good potted plants were sold for Xmas and New Year presents. Azaleas, poinsettias, begonias, primulas, Roman hyacinths and paper white (3 or 4 in a pot) all sold well and there was quite a demand for good palms and dracenas.

The stock of roses has not improved in quantity or quality, though Mermets showed an improvement in color. Brides and Mermets were held by the commission men at from 12 to 14. Perles were almost an unknown quantity; stock was very small and very poor but the price commanded was from 10 to 12. Gontiers were a little more plentiful, but still not enough to go around at 6 to 8. Beauties were held at from 50 to 60, with good demand and limited supply. Carnations were scarcer than for Christmas. All the growers had cut for Christmas everything that was fit to market, consequently there was a shortage in most varieties.

Violets are still extremely scarce and are held at very high prices. In bulb stuff the market was also short. Romans, which in former years had been a perfect drug, were in good demand and every flower was sold at good prices. Valley has not improved; most of the stuff that appears on the market has not a single leaf and takes poorly.

The wholesale men report an extraordinary shipping demand. From the middle of December up to date fully one-third of the orders could not be filled.

Corbett & Wilson, of College Hill, are troubled a great deal with ground mice eating their carnation buds. In one night Mr. Wilson said they ate as high as 80 or 90 buds. P.

PALMS.

150,000 of all the leading varieties.

FERNS.

50,000 of leading varieties.

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ROOTED CUTTINGS.

ROSES—Brides, Mermets, Gontiers, \$1.25 per 100. Perle, Hermosa, La France, \$1.50 per 100. CARNATIONS—Daybreak, Edna Craig, \$2.00 per 100. McGowan, Silver Spray, \$1.50 per 100. Portia, Wilder, \$1.25. VINCAS, \$1.00 per 100. Mail prepaid. Cash with order.

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AZALEAS. We pay the Express,

And guarantee safe arrival. Azalea Indica, 12 to 15 in., well set with buds, 75c each. Azalea mollis, 40c each. S. WHITTON & SONS, Wholesale Florists, 9-11 Roberts St., UTICA, N. Y.

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BUY VIOLET "LADY HUME CAMPBELL"

From the original stock. Never had disease. Orders booked now for Spring delivery. Rooted Cuttings, \$2.00 per 100. Rooted Cuttings, extra selected, \$3.00 per 100.

CARNATIONS, Germania, splendid yellow; Souv. de la Malmaison, flesh. \$2.00 per dozen.

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CANNA KOENIGIN CHARLOTTE—Most striking Novelty; strong established 4-inch pot plants, \$10 per 12; \$1.00 each.

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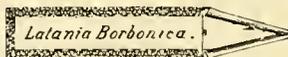
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Manufactured from decorated tin and brass, of neat appearance, will last for years; holds removable card board for name of plant, always legible, protected from moisture by transparent mica. Size, 5 1/2 inches long, 1 inch wide. Send for descriptive circular.

Tin Labels, price per 100 \$1.75. Tin Labels, sample dozen, postpaid, 30c. Brass Labels, price per 100, \$2.25. Brass Labels, sample dozen, postpaid, 35c.

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Prices on application.

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A man who understands the manufacture of FLORISTS Wire Work.

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Valuable Discovery of the 19th Century.

SILVER MEDAL AWARDED

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CALIFORNIA STATE FAIR OF 1890.

This preparation is a sure destroyer of the **Scale, Woolly Aphis** and **Insect Pests** of any and all descriptions. It may be as freely used in the conservatory, garden and greenhouse as in the orchard or vineyard. It is non-poisonous and harmless to vegetation when diluted and used according to directions. It mixes instantly with cold water in any proportion. It is **Safe, Sure** and **Cheap.** No fruit grower or florist should be without it.

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Kills Mildew and Fungus Growth. What does?

GRAPE DUST.
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 Sizes 1½-inch and 2-inch, \$2.00 per 100. Patent fastener with each letter.
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FOR FLORISTS.
 Largest and finest stock in the United States. Write for prices to
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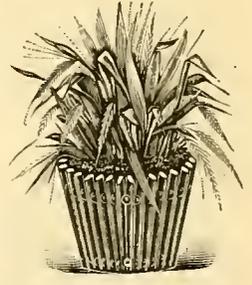
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 Three-Piece Wood Mailing Boxes.
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 A full line of
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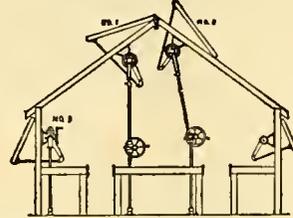
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The florist's friend in working and prices.



No repairs for 5 years. no chains to break as is the result with others.

Opens Sash uniformly in 100 foot houses a new device. Send for Catalogue and prices.

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FLORISTS WIRE DESIGNS
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THE KINNEY PUMP.



THE KINNEY PUMP.

Every florist, market gardener, owner of lawn, grass-plot or flower-bed, to fact everyone who has a faucet and hose should have the Kinney Pump (patent applied for) for applying liquid manure, fungicides and insecticides to plants. Feed your plants, fertilize your lawns by using liquid manure. The cheapest, simplest and most scientific spraying pump in use. Sent prepaid for \$2.50—spraying valve attachment 50c. Pump complete \$3.00. Send for circular. Address

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 Only 29 Kingstons in the U. S. Get the state straight. "They are a good thing." "A very valuable labor saving device."—W. N. RUDD, Sec'y Mt. Greenwood Cemetery Assn., Ill.
 "The most valuable labor saving invention I ever used."—C. E. WELD, Roslindale, Mass.

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Made up, nailed or lock cornered; or material cut to size ready to be nailed up at destination.

Plant Stakes.

¼, 5-16, ¾, ½, ⅝, ⅜, and ⅞-inch square, cut to lengths wanted.

When asking prices state sizes of boxes or stakes and quantity wanted.

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J. N. STRUCK & BRO.
 Manufacturers of

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LOUISVILLE, KY.

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"GREEN HOUSE PUTTY"

(TRADE MARK.)
 To be applied with a bulb. The only putty made to work this way for greenhouse sash.
PUT UP IN 20 lb. CANS.

Has been used by florists in this city for years. Try it and you will use no other.
 Read the following good report of our Green House Putty:

PITTSBURGH, PA., September 1st, 1894.
 We have been using the T. H. Nevin Co.'s Green House Putty for some time, and are pleased to recommend it to all those who wish a number one article. It has always given us perfect satisfaction. When you use this Green House Putty you will be sure of good results from same. Signed:
 JOHN RODGERS, Florist, Green Tree Boro., Pa.
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T. H. NEVIN CO.,
 Corroders of STRICTLY PURE LEAD,
 P. O. Box 928, PITTSBURGH, PA.
BEWARE OF IMITATIONS. None genuine unless labeled as above.

Springfield, Mass.

Every dealer reports the biggest holiday trade in years. In almost every instance the sales exceeded expectations, roses and greens being particularly in demand.

An attractive advertising souvenir was issued by the Gale Floral company just before the holidays. It consisted of a twelve page leaflet, daintily illustrated, and contained a brief description of various kinds of greens appropriate for Christmas decorations, the last page being devoted to some interesting facts about choice cut flowers.

Charles R. Miller & Co., report the best Christmas trade in years. The firm disposed of ten large cases of holly and Mr. Miller says he could have sold as much again if he had had the stock.

The annual prospectus of the Hampden County Horticultural society will be issued early in February and besides the usual announcements and premium lists of the year's exhibitions it will contain much interesting information for dealers and growers. The special premium committee appointed at the annual meeting of the society in November will make its report to the board of managers next week and among other things it will recommend that \$1,000 in premiums be offered next season, about \$400 more than on any previous year. F. W. J.

STOCKTON, CAL.—Mrs. E. M. Shaw has succeeded to the business of M. J. Shaw, corner Eldorado and Channel streets. Two small houses belonging to E. C. Clowse were recently destroyed by fire. H. P. Fitch is building a greenhouse 16x30 feet. The cut flower trade here is small; demand for funeral designs good.

TAYLOR, TEXAS.—The entire contents of a small greenhouse 16x40 filled with general pot and bedding plants belonging to A. J. Seiders was frozen on the night of December 27. A severe hail storm followed by an unusually sudden and severe cold spell was the cause. No insurance. Loss about \$250.

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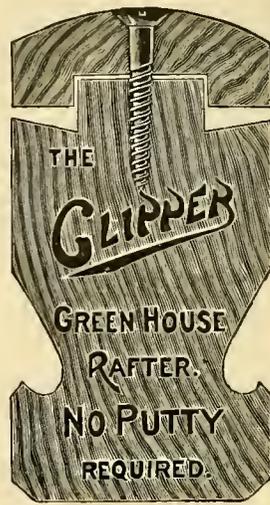
FLORIST!

Aren't you tired going through your houses two or three times a day year after year and lifting your ventilating sash one at a time and propping them up with sticks or pots, with a chance of having sash blown off and broken glass to pay for? If you are



We have got just the thing you need, the NEWEST and BEST thing out. "The New Departure" for about half the cost of the old style. Send for Descriptive Catalogue to

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Thanks for the good measure for splices.
Respectfully,
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The finest CLEAR CYPRESS used.

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The Whilldin Pottery Company,

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STANDARD FLOWER POTS

Every user of Flower Pots should correspond with us before purchasing elsewhere. Our facilities are unequalled.

A. H. HEWS & CO., N. Cambridge, Mass.

Announcement to Florists.

We desire to announce the dissolution of the firm of Sipfle Doppfel & Co., and to introduce to the trade its successor, The Syracuse Pottery Co., which will be under the management of William Doppfel and Conrad Breitschwerth. The business will be conducted as heretofore, except on a larger scale to meet the growing demand for our goods. We have accordingly enlarged our plant and capacity, and with unsurpassed facilities are now prepared to fill the largest order on short notice. Our latest improved machines are turning out the best and most serviceable flower pots in the market, and assuring you of our intention to lead in further improvements we solicit a continuance of your patronage in the belief that we can supply just what is needed at a price and in a manner satisfactory to all.

Send for price list and samples and we know you will give us an order.

SYRACUSE POTTERY CO. OFFICE:
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STANDARD FLOWER POTS.

We will furnish you with prices on application, and will fill all orders promptly. Our Pots are excelled by none in the market.

THE PARMENTER MAN'FG CO.,
EAST BROOKFIELD, MASS.

FLOWER POTS.

We Manufacture all kinds of Flower Pots, etc.
Making a Specialty of

Florist Standard Pots

Send for price list and samples (which will be sent free), and we know you will give us your order.

J. G. SWANN'S SONS, P. O. Box 78,
Minneapolis, Minn.
When writing mention the American Florist.

"ROSE LEAF"

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INSECTICIDE,

Death to Aphids, Red Spider, &c.

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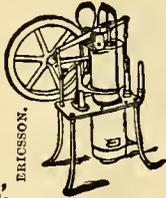
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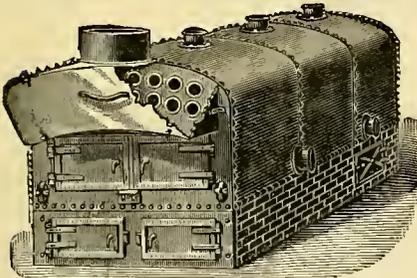
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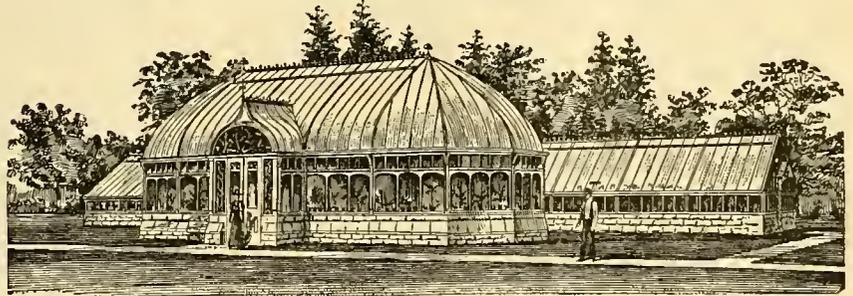
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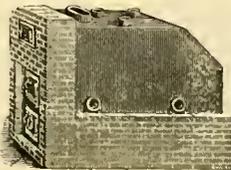
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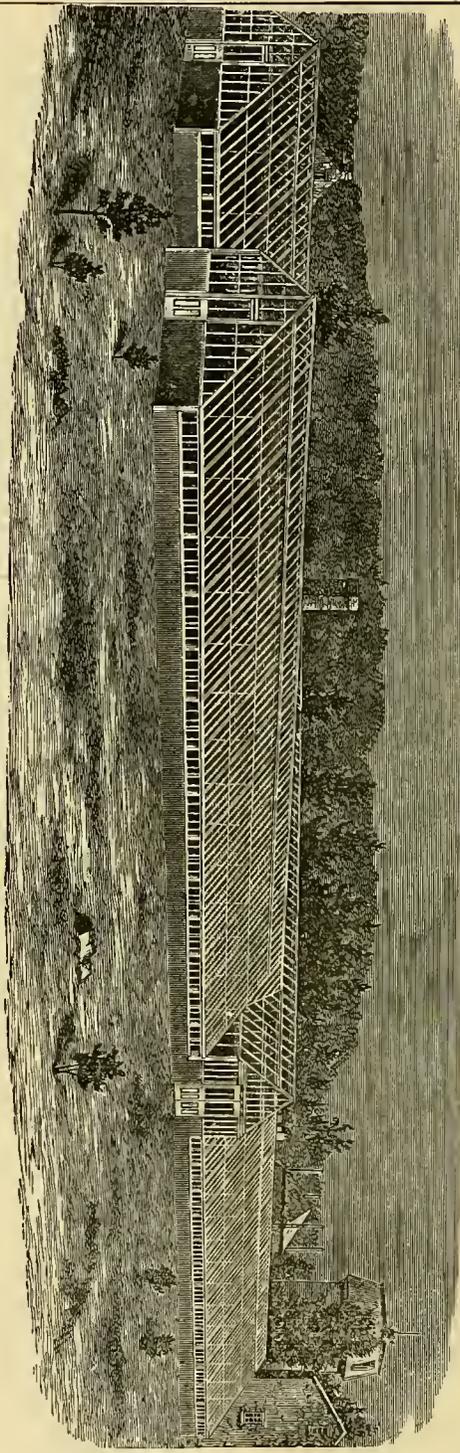
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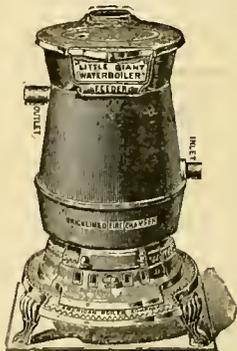
SYRACUSE, N. Y.—Henry Burt's greenhouses were slightly damaged by fire December 23. Loss about \$200.

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THE AMERICAN FLORIST



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Vol. X. CHICAGO AND NEW YORK, JANUARY 12, 1895. No. 345

THE AMERICAN FLORIST

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SOCIETY OF AMERICAN FLORISTS.

EDWIN LONSDALE, Chestnut Hill, Philadelphia, president; E. C. REBEJMAN, Allegheny City, Pa., vice-president; W. J. STEWART, Boston, secretary; H. B. BEATTY, Oil City, Pa., treasurer. The 11th annual meeting will be held at Pittsburg, Pa., August, 1895.

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Society of American Florists.

President Lonsdale has appointed the following gentlemen as members of the executive committee for three years beginning January 1, 1895: Jackson Dawson, Jamaica Plain, Mass.; Grove P. Rawson, Elmira, N. Y., and H. H. Battles, Philadelphia, Pa.

DAYTON, O.—Ernest L. Seitner, the florist, died January 2, aged 71 years. He was born in Germany in 1823 and came to America in 1853. His wife died nearly fourteen years ago. He leaves five children.

TOPEKA, KANS.—Christmas trade and retail prices were about the same as last year. Supply short. Greater call for carnations.

Horticulture and Floriculture at Cornell.

BY MR. MICHAEL BARKER.

[Read before the Gardeners' and Florists' Club of Boston, January 8.]

The education of gardeners and florists has been often discussed, and apparently with but small approach to a settlement of the points at issue. Practical men in general are not in favor of the higher education for gardeners, and it is frequently stated that the common school years afford a sufficiency of knowledge wherewith to enter upon the pursuit of horticulture, leaving the practical education to be completed by a thorough course of training in the ordinary work of gardens and nurseries. Hitherto I have looked upon this as the best way to acquire a profitable knowledge of gardening in all its branches. A boy, for instance, graduating from the grammar school may begin work at once, and in five or six years become quite competent to command an income sufficient to provide the necessities of life; and in the case of the vast majority of boys this is the main question. There are many, however, who aspire beyond this, and it has always appeared to me as most unfortunate that there are so few institutions where one may receive a high-class education and at the same time such experience in garden operations as would qualify him for a position as gardener.

Where in all the world is there one such establishment? Kew and Chiswick all lack much that is desirable. At Kew, indeed, the young gardeners are required to be generally competent before they can gain admission, and as might be expected in a place of its character, the lectures, observations and experiences there favor botany rather than horticulture. The Chiswick Garden of the Royal Horticultural Society is a much better place for training in the practical work of horticulture; but the facilities for intellectual improvement are much restricted, and the corporation, owing to financial difficulties, is, or was a few years ago, unable to expand to meet the requirements of the age. But in times past Chiswick has made many good gardeners, while Kew has only polished those who were already qualified. The Shaw Garden of St. Louis, as I understand it, aims to rival Kew, and as a consequence her gardeners will probably excel in botany at the expense of horticulture and floriculture. As a subordinate factor botany is of great utility to all horticulturists and floriculturists; but when all phases of gardening having to be examined through a botanist's spectacles, the science becomes a clog on progress. A good combination of the practical with the theoretical is most useful in the education of gardeners, and in this regard—in the way of a thoroughly practical education in horticulture and its allied arts and sciences—I can say without hesitation

that in Europe or America there is nothing equal to the practice and instruction afforded by the Horticultural Department of Cornell University.

It has been my good fortune to see and know something of all the more important horticultural institutions in England and the United States, and last July in looking over with Professor Bailey the material for instruction at Cornell, I was much surprised to find that a work of such superior quality had been going on quietly for years quite unknown to a large majority of the gardeners and florists throughout the country. The Horticultural Department of Cornell University has no delusive ancient history with which it might decoy those in search of knowledge to its fold; it is new in conception, modern in appliances and methods, and practical in all its work. The department was established in 1889, and its growth since that time has been healthy and rapid. The students have abundant opportunity to become expert in the general work of the farm, garden and greenhouse. They are expected to do something more than make a compilation of notes in the lecture halls. In the extensive orchards they have ample experience in planting, spraying, pruning, budding and grafting. Spraying has of late years become a most important matter in farm and garden work, and as in all other divisions of instruction the fullest and best practice and information is given under this head. The collection of spraying machines and contrivances, fungicides and insecticides, is one of the most complete to be found anywhere, and all new appliances and remedies are added as they appear and are tested repeatedly. The expert in spraying, Mr. E. G. Lode-man, is well known in this country and Europe to be one of the leading authorities on insects and fungi injurious to vegetation, as well as for the facility with which he can prescribe a remedy for any known pest.

Vegetable culture outdoors and under glass is given a large share of attention, and the raising of new and improved forms of our commonest vegetables is pursued in a manner that can not prove other than of the greatest value to all who may embark on a horticultural career. The students at Cornell do practically all of the work incident to the raising of vegetables under glass, and lettuce, cauliflowers, radishes, tomatoes, cucumbers, melons, mushrooms, etc., are among the crops grown annually. Their work, including the preparation of soils and manures, sowing seeds and in other ways propagating stock, potting, planting, tying and training, making and spawning mushroom beds, watering, ventilating, etc., is, of course, subject to competent direction, and it would surprise many able gardeners to see the excellent crops these beginners produce.

Just at this time there is a crop of tomatoes in full bearing which would be creditable to any expert, and every operation in connection with the same has been performed by regular students.

The leading plants and flowers of the florists, notably roses, chrysanthemums, carnations and violets, are similarly grown in quantity, and the work of their propagation (including grafting and budding), potting and planting, staking and training, disbudding and crossing, and treatment for diseases and insects is likewise relegated to students with very marked success. The merits and defects of various systems of heating, glazing and ventilation come under their observation daily, and there is much practical work of the most useful character in piping, glazing, the construction of benches and the application of shading materials in which they participate all through the college year. This is supplemented by similar work in the greenhouses of the Botanical Department, where there is a large and varied collection of palms, ferns, orchids, cacti and other exotics. And the work of the lecture halls and laboratories covers the fields of agricultural chemistry, botany, horticulture and floriculture, so far as theory is concerned, as perfectly as the best practice is demonstrated in orchard, garden and greenhouse.

The most complete garden library in this country, so far as I know, is that of the Massachusetts Horticultural Society, and that of Cornell University certainly stands second. But if the present rate of increase in number of volumes continues very long, Cornell will speedily advance to first place. I do not mention this with a desire to convey the impression that any number of books will ever make a gardener; but as much of our advance is due to the faithful records of work done in similar directions by our predecessors, I refer to the matter simply to show that nothing is neglected at Cornell which will tend to promote the interests of the student. And in the same way I may call attention to the garden herbarium—the most extensive thing of the kind in existence. Speaking in a botanical sense, there are some herbariums of far greater extent and importance; but from a purely horticultural standpoint the Cornell collection of dried specimens of cultivated fruits, flowers and vegetables is unrivalled. Many students of garden botany have found this herbarium to be of great service in tracing the origin of numerous forms of cultivated vegetables. The herbarium is one of the many good works of Professor Bailey, and it will perhaps be interesting to record that he regards it as his best assistant. In some investigations of garden beans, of which, he says, there is a great deal yet to be learned, he has found this herbarium of immense utility. I might go on to speak of many minor collections, among which is one of three thousand photographs illustrating varied phenomena in the lives of garden plants, but on these points sufficient has been said to indicate that horticultural education on a solid, lasting and profitable basis has only begun.

Aside from the regular work of instruction, all the officers of the department have special experiments and investigations in hand in the interests of horticulturists and floriculturists in general. The students may keep records of the progress made in such investigations, and in that way gain valuable knowledge and experience. All new plants, fruits, vegetables and flowers sent to the department are thoroughly tested, and the results of such

tests are printed and distributed gratuitously among interested parties. Novel inventions and appliances, fungicides and insecticides, etc., are treated in the same manner. Efforts are being made to improve our native fruits, and foreign varieties of standard fruits are introduced and tested as to their reliability in our climate. A careful watch is kept on the vegetables imported from foreign countries and grown in and about immigrant settlements, notably such as are introduced by the Chinese and Japanese. Many of the plants, particularly garden vegetables, which these people of the Orient have brought with them and established around their new homes are of great importance to the student of economic botany, as in some cases they undoubtedly afford a better clue to the origin of some of the occupants of the kitchen garden than any we now possess. Some of our most valuable vegetables have been in constant cultivation from a period so very remote that their original types in many cases cannot now be identified, if they exist at all in the earth to-day, and if the more primitive types introduced by the modern generations of Mongolians assume any of the characteristics of our own products, it will be a distinct gain to have these records of their quality and character when first established in this country. Whether any of these imported vegetables ever attain to anything like the high quality of our own produce is a question which we cannot hope to see solved for many years to come. But in any case the records retain their utility, and as at Cornell some of the imported plants have already been crossed with the commoner kinds of Europe and America, it may be that at some time we may find greater light on this interesting subject.

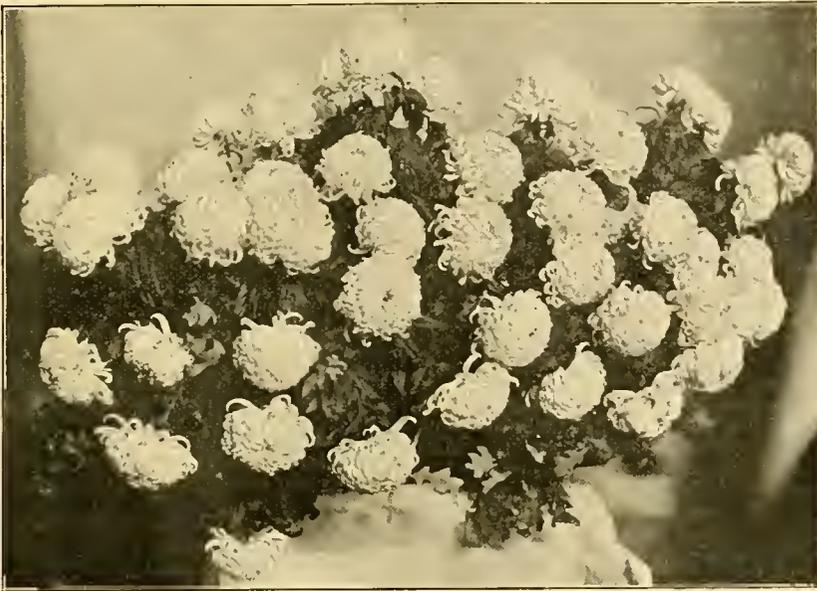
An investigation of perhaps more immediate concern to florists is one now being carried on with the common callas of our greenhouses. It is known that the calla in its natural state exists under periodical seasons of drouth and moisture, and the common practice in cultivation, as you are all aware, has been to imitate the natural conditions by alternating the periods of rest and activity. In this it has been found that callas under amended treatment will continue to grow luxuriantly throughout the year, and that their physical character is somewhat changed by the novel conditions. That the plants produce a greater or lesser number of flowers under this system is a matter so far undetermined, but one which will be announced in due time. In like manner it is known that those begonias which are cultivated for their flowers generally produce a large number of pistillate or female blooms. Ordinarily the female flowers are not so showy as the staminate or pollen blossoms, so that obviously it would be an advantage to influence the plant in such a way as to make it produce more staminate flowers and fewer or none of the pistillate order. It is generally believed that the application and lack of food produce opposite effects in the development of sex in the flowers of monoecious plants; but the data on the subject is hardly sufficient for practical purposes, and our object is to gain such a knowledge of the matter as may render it serviceable to gardeners and florists.

While speaking of begonias, I should perhaps refer to the nomenclature of the genus. This group of plants, embracing both the foliage and flowering species, hybrids and varieties, is undoubtedly the

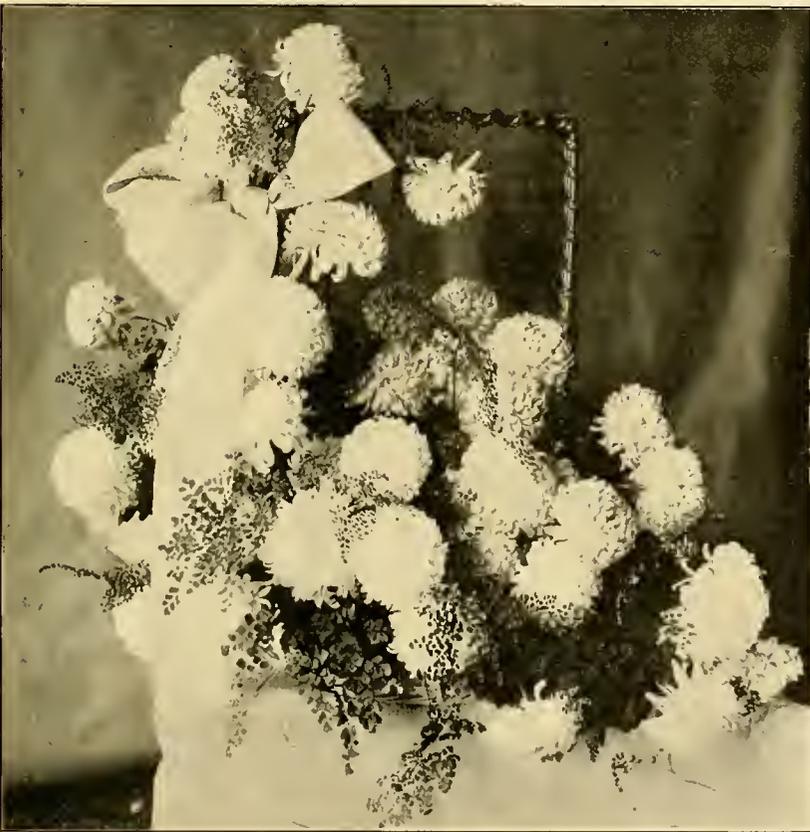
most popular for indoor cultivation with all grades of gardeners. There is a large number of species and their attractive qualities have led to the production of a large number of hybrids and varieties. Many of these plants are so much alike and there are so many synonyms that even now the catalogues have the names badly mixed. It is desirable that the evil should not be allowed to extend and Mr. E. G. Lodeman has entered upon the task of unravelling the tangle before it becomes too intricate, and in this I would here solicit for him the cordial assistance of the fraternity in all parts of the country. At Cornell we have one house devoted exclusively to the cultivation of begonias, and a list of such kinds as we now possess (which will be mailed to all growers of these plants) is now in preparation. Many kinds, especially hybrids, are still lacking in our collection, and growers are kindly requested to aid in the work by forwarding seeds or cuttings of any uncommon sorts they may be able to spare.

We are also engaged in a series of investigations touching on the troubles and problems which beset chrysanthemum growers, and a preliminary bulletin reviewing the present situation in some important chrysanthemum matters will shortly be issued. There is here a large field for useful work, and with the support of the growers in supplying material we hope to be able to accomplish some of it. The scope of these investigations is better outlined and discussed in the bulletin already mentioned, and at this time I need only refer to some of the heads under which we feel certain there is plenty of room for improvement. One of the most pressing of these is the classification of varieties. The matter of fungous and insect pests is assuming serious proportions, and needs prompt and effective ventilation. It is also hinted that we are threatened with bacterial troubles, and there is no telling what other plagues may seize upon our plants in years to come. But we must be prepared for all emergencies, and the growers of the United States and Canada can rest fully assured that all questions submitted to us will have our most prompt and careful consideration. We are well equipped with experts in culture, fungiology, vegetable pathology and entomology. The utility of the various commercial fertilizers in chrysanthemum culture is another matter which requires extensive experiment, and one to which we propose to devote some time during the coming season. Grafting the various weak growing varieties on a vigorous stock with a view to the production of good specimen plants is an experiment yet to be tried in this country, and the trial of new varieties, all grown under the same conditions, to ascertain the degree of annual progress, demands some of the space at our disposal. The various systems of culture also should be properly compared, but that we shall be able to enter upon this question is doubtful, the greenhouse space at command being now fully occupied. In these matters, again, we must look to the growers for co-operation and assistance, and past experience informs me that our expectations shall be fully realized, as where it has been possible the patrons of horticulture and floriculture in America have been most generous in supplying needed material.

Violet growers are harassed by numerous difficulties generally traceable to disease in some form. The extent of these troubles may be imagined from the fact that one grower has in five years lost no



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NO. 2. SECOND PRIZE. ARRANGED BY J. M. GASSER.
CHRYSANTHEMUM BASKETS AT THE CHICAGO EXHIBITION.

less a sum than six hundred dollars through the diseases to which these plants are subject. We have collected all the varieties of the violet cultivated in the United States, and these, with new varieties expected from Europe, we propose to propagate and treat systematically to ascertain their respective merits, comparative immunity from disease under the several methods of cultivation, and to experiment with a view to subjugating the disease where it makes its appear-

ance. Considerable space is given to roses and carnations, and we are hopeful of being able to secure sufficient funds to enlarge the accommodations for these plants so as to permit of desirable experiments with them. A good piece of ground has been set apart for a test of all the varieties of the canna during the coming season, and in this we shall be pleased to include plants of every kind sent to the department. A prominent feature of the place is the experiments

with electricity. The electric light is employed, principally in forcing vegetables and flowers; and as the work in this direction goes on it is anticipated that some results of great importance to those who grow plants under glass will be obtained. Some of the advanced students are doing good work in the laboratory greenhouses in demonstrating the effects of fruit bearing upon the mechanical tissue of various plants, and in studies of the physics of greenhouse roofs. The latter experiments, entailing the cultivation of average greenhouse stock under roofs disposed at varied angles and glazed with all the qualities and colors of glass in the market, employing both the lapped and butted systems of fixing the material, are of peculiar interest to all greenhouse men.

Having noticed thus briefly some of the more conspicuous phases of horticulture and floriculture which are given attention at Cornell, I think it may be safely assumed that any young man of ordinary intelligence who observantly goes through the general routine of work which they render necessary, should in a short time become a gardener or a horticulturist of no mean ability. And young as is this department of instruction at Cornell there are many of her horticultural graduates occupying positions of much importance in all parts of the country. Among the Cornellians who have taken full advantage of these opportunities are some whose names at least are familiar to most of you, such as Mr. Willis N. Rudd, secretary and superintendent of the Mount Greenwood Cemetery, Illinois; Mr. C. J. Pennock, the carnation specialist of Kennett Square, Pa.; and Mr. C. D. Beadle of Biltmore, North Carolina, said to be the most expert propagator of hardy stock in the country.

THE RETAIL TRADE.

The Arrangement of Flowers.

XVII.

CHRYSANTHEMUM BASKETS.

The three illustrations presented herewith are from photographs of the prize-winning baskets at the late Chicago exhibition.

In considering the arrangement of chrysanthemums in baskets it certainly is a fact that the flowers that best meet the standard of the grower to-day are difficult to combine into a really graceful arrangement. While stoutness of stem is desirable in many cases, in certain positions this characteristic is a decided detriment. The basket in our first illustration is filled with the variety Mrs. Jerome Jones, and while the individual flowers are fine, with stems that are surely up to the standard as to stoutness, and each bloom is fully displayed, it is simply a display of flowers and nothing else. This arrangement consists of a large sized splint market basket filled with moss, into which are placed about 50 blooms, the outside of the basket being covered with autumn foliage. Such a basket as this, however, being so large and unwieldy, is seldom if ever called for. Its cost would probably stand like this, 50 "mums" at 25, \$12.50; basket and foliage \$1, moss 25 cents, total \$13.75, and could therefore be furnished at a profit for \$25 to \$28.

The second illustration shows a combination of The Queen and Ada Spaulding arranged in a celluloid basket with gilt handle. The treatment of the material in this basket is of an entirely differ-

ent character from the former. It is a fine example of the florists' art, and shows what can be accomplished with such material. The Queen belongs to that class of large sized blooms best adapted for arrangement in vase or basket. The stem of the flower is not so exceedingly stiff but that it will yield to a desired form. Ada Spaulding also is a variety suitable for arrangements and the two make a very good combination. As will be seen in the photo the flowers are carried on the left hand side up to top of the handle, which is tied with a broad pink ribbon. The blooms in the body of the basket are of uneven height and interspersed with Adiantum cuneatum. There are strong objections by many against the use of adiantum in any form in chrysanthemum arrangements. We have ourselves expressed the opinion frequently that the small and more delicate forms such as cuneatum, gracillimum, etc., seem out of place. It must be admitted, however, the style and character of the arrangement must be taken into consideration. There is no doubt that in such a style of basket as we have under consideration some variety of fern is not only admissible but even necessary. At the same time we should say that A. princeps, for instance, seems better suited in combination with large flowers. It takes about 3 dozen good sized blooms to fill a basket of this kind, which at 25 cents each will cost us \$8.50, basket and moss \$1.50, adiantum 50 cents, 3 yards ribbon \$1.50, total \$12. At retail the basket would bring \$20 to \$25. It is, however, not necessary to use the highest priced material and the cost would of course vary with the quality. The same general effect might be produced at a much less cost.

The third illustration is an oval white willow basket with high handle. This is filled with about 50 medium sized Eugene Dailedouze arranged with Asparagus plumosus. If a basket is of sufficiently large size this variety is one of the best of its class for the purpose. The use of A. plumosus is commended by some and condemned by others. We are of opinion that the asparagus is rather detrimental to a good effect as the chrysanthemum seems to lose its individuality to a certain extent in connection with it. The cost price of such a basket would be, figuring the "mums" at 20c, 50 blooms, \$10; basket \$1, asparagus \$1, total \$12. Selling price \$20 to \$25.

But there are many other varieties far better suited for decorative purposes than the above. Most of these, however, have almost entirely disappeared from our markets, and it is in vain we look for them even in our exhibitions. Take for instance the anemones, most all of which are admirable in a decoration, and then again the single varieties which are also good, and take the type of which Belle Poitevine is a good representation, and our old favorite Snowball.

CHRYSANTHEMUM VASES.

Last November Mr. Grove P. Rawson sent us a box of chrysanthemum blooms which among other varieties contained a lot of Belle Poitevine and the beautiful anemone James Weston, saying that he found them exceedingly useful in adding grace to arrangements of chrysanthemums. To show what could be done with these two varieties we arranged them in a vase and had them photographed as shown in the accompanying plate. Note the graceful way in which the blooms of Belle Poitevine dispose themselves. The yellow centers of the anemone variety added a charm to the

arrangement that the engraving does not convey.

The box contained also a lot of Kiotos, the stems of which were twisted in a most grotesque fashion. Such flowers, if put on the market, would probably find few buyers, and yet they are useful in a vase arrangement, although we may find it necessary to use in connection with them some other variety with a straighter stem. In our illustration Harry Widener was used in combination with them.

Decorations at the White House.

The public reception of President and Mrs. Cleveland on New Year's day was properly speaking the beginning of the social events of the season at the Capitol. It was attended by an unusual number of persons in all stages of society, from the dignitaries of the foreign world to the honest laborer, the president and Mrs. Cleveland grasping the hands of each alike. The large East Room was handsomely decorated for the occasion. The large old fashioned window on the east side of the room was banked from the floor to the ceiling with palms, pandanus, crotons, marantas, dracaenas, aspidistras and ferns, brightened by the brilliant poinsettias. The six huge mantels beneath the great mirrors framed in white and gold were banked with small palms, crotons, marantas, pandanus set in white celluloid baskets, dracaenas and ferns fringed with asparagus. The two mantels on the north side were banked with double white primulas. The three massive crystal chandeliers were draped with garlands of smilax. On either side of the entrance into the main corridor were two fine specimens of dracaenas. The mass and profusion of all varieties of foliage and decorative plants brightened by gay colored flowers offset the fresh new white and gold finish of the ceilings and walls of the beautiful East Room.

The Blue Room was of course the center of attraction, it being the reception room for the day. Here the massive gold framed mirrors were draped with smilax, looped back after the fashion of portieres. The west mantel beneath the mirror was banked with adiantum, the centerpiece being a fine specimen of Angraecum eburnum superbum, having two very large spikes of bloom. Concealed in the bed of adiantum were the following orchids in baskets: Lælia Arnoldiana, L. autumnale atro-rubens, Cattleya Trianae, Cyripedium venustum and Io, with four plants of begonia President Carnot. The east mantel was banked with adiantum studded with camellias, roses, Begonia Saundersonii and Romans. The entire north side of this room was banked with foliage and flowering plants forming a background for the receiving party.

The Green Room mantels were banked with foliage and flowering plants. The mirrors were draped with smilax.

The mantel in the Red Room was done with double white primulas in jardinières of bright red. The long corridor connecting the last room with the state dining rooms is furnished in the same warm shade as the red room, and was decorated with foliage plants. The decoration of all these rooms, with the exception of the East Room, was under the direction of Mr. Henry Pfister, who has charge of the White House conservatories. The East Room was decorated under the direction of Mr. G. H. Brown, superintendent of public grounds, who always has the arranging of this room. REYNOLDS.



Carnation Notes.

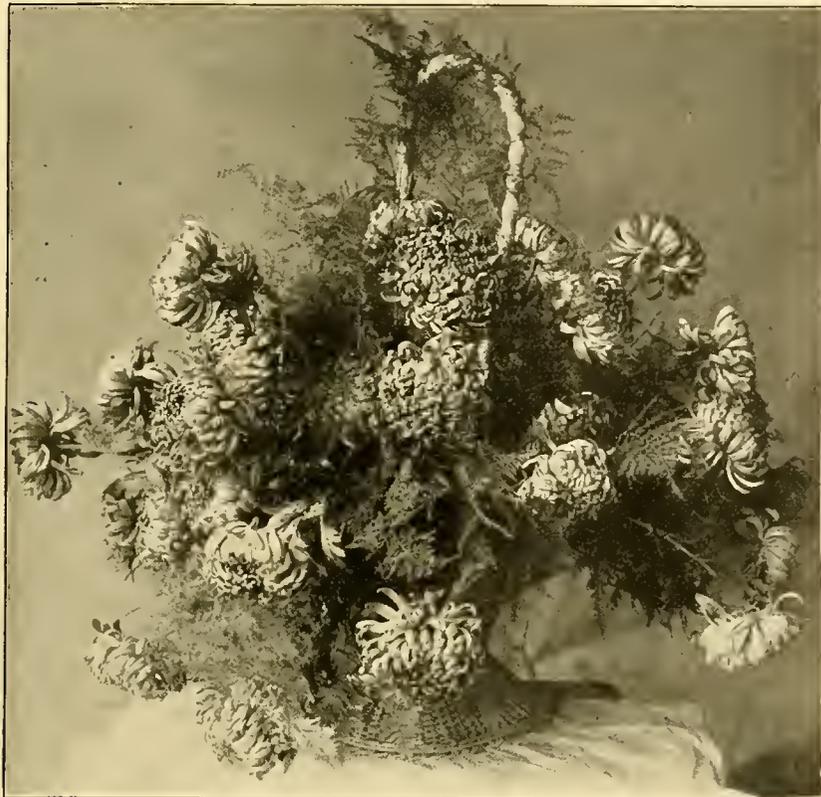
In looking over an old book by Thos. Hogg, published in 1839, I find that no carnation less than three inches should ever be staged. Would it not be well to make a rule similar to this in all exhibitions at the present time? True, the carnation of that period was not the exact type that we are growing to-day in this country, and, by the way, Mr. Hogg wrote his book in England and on English stock. I find that the florists then had to give their plants much more care to obtain fair results than the majority of us give our stock to-day. The flowers were all produced during the summer from plants grown in pots from time of rooting, which was done both by layering and from cuttings. The former method was used mostly because a greater proportion rooted; the latter made the best plants. Cuttings were made the latter part of July and rooted in rich sandy soil, and after rooting (in soil composed of about one-half manure and the balance loam) the plants were carried over winter in frames.

There has been much talk about the size of carnations; how large can we get them? and what is the limit? Mr. Hogg said nearly sixty years ago that no flower should be exhibited that did not measure three inches in diameter; would it not be well to rule all flowers less than three inches out of our exhibitions? We know they can be grown considerably larger, and it seems as if a rule of this kind would greatly increase the quality of an exhibit. Some may say to this "You would not get up much of a show with such a rule," but would not the quality more than compensate for the loss of a few poor exhibits?

It is unfortunate that the general idea of those interested in flower shows is that the people want great masses of bloom, and that only such a display will draw a crowd. I believe this to be a mistake, and I will venture to state that at the show in Boston next February the greatest attraction will be the new seedlings of which only six blooms are required—this class will bring out many new sorts, and he who has flowers that will not measure over three inches will be outclassed in every shade and color.

Referring to Mr. Dorner's remarks in these columns December 22 concerning carnation Uncle John, I think he has been misinformed about his favorite white showing rust. The fact is that many growers in this section found rust developing on Uncle John shortly after planting outside last spring; the pest did not wait until it had been housed. Nevertheless the plants did make an astounding growth considering the dry season, and this fact alone is greatly to its advantage and should induce everyone who has stock of it now to rid it of the rust and also bacteria, to which it is subject, but which can be cured by giving it plenty of air, room and lots of manure water, a dose I find it relishes highly.

The great trouble I have found with this carnation, as I have stated previously, is its tendency to sport, many of the plants throwing up semi-double flowers. I have found, however, several that are certainly



NO. 3. THIRD PRIZE. ARRANGED BY W. J. SMYTH.
CHRYSANTHEMUM BASKETS AT THE CHICAGO EXHIBITION.

grand, and from these I shall work up a stock, as I believe it can be made to pay better than McGowan, the flowers coming very large, and of perfect shape at all times.

Mr. Dorner says that if the plants had been infested with rust they would not have grown as large as they had done all over the country. I have seen the rust on some of the strongest plants and it apparently had no effect upon the growth, for the plants after being housed furnished an abundance of flowers. Why so many growers whose plants of other sorts were full of rust should have thrown out their whole stock of Uncle John is a pertinent query, for they all recognize the fact that this is a very fine white; they evidently think because it is new and shows the rust that it must be bewitched, and therefore a fit subject for the flames. I only hope that with the few plants I have I can be able to work up a stock that will be as profitable as Mr. D.'s stock has been to him.

CHARLES H. ALLEN.

Chester County Carnation Society.

The January meeting of the society was held at Kennett Square January 5, the attendance being good. It being the annual meeting of the society the election of officers was held. The following were elected unanimously: President, J. H. Ladley; secretary, W. R. Shelmire; treasurer, J. J. Styer. As a standing committee, whose duty it should be to present subjects for discussion, the president appointed C. S. Swayne, C. P. Barnard and Louis Eastburn.

Mr. David Rust of Philadelphia was present at the meeting and gave some additional light on the scheme of a Philadelphia flower exchange. The most serious objection to the plan as suggested was that the large growers would not

give up contracts with parties outside of the city, and the proposed grading of flowers has not met with general approval. Edw. Swayne thought the only successful exchange would be one that would sell each grower's flowers on their own merits. Pres. Ladley regretted that more progress had not been made towards the desired end, but felt that we were moving forward.

C. J. Pennock suggested that the society make a contribution to the guarantee fund of the American Carnation Society for its exhibition, to be held in Boston in February. The sum of \$25 was voted for this purpose.

C. S. Swayne, in response to an inquiry as to the success of his new greenhouse, stated that he considered it almost a perfect success. It had now been tested in severe cold, high wind and snow. This house is 100x50 feet, single slope, with a fall of but 9 feet.

Sec'y Shelmire reported that a house thoroughly lighted with electric light had shown a perceptible gain over other houses not so lighted. These lights were incandescent. He believes that with a properly constructed arc light the result would be beneficial, but probably would not be profitable. Instances were cited where the direct rays from a strong arc light had been very harmful to the growth of plants. Jos. Phillips thought the experiment would be of doubtful benefit, giving the plants no time of rest. Sec'y Shelmire referred to the experiments of Prof. Bailey at Cornell University, showing that plants of some kinds at least grew better under continuous light.

The exhibit of flowers, while not so large as usual, was very good. Chas. T. Starr showed Louisa, light pink, Mrs. Chandler, rose pink, Chas. T. Starr, scarlet, and others unnamed. Thompson Bros.

showed Lawrence Thompson, pink, and a fine large variegated flower. C. P. Barnard exhibited Cæsar seedlings, scarlet and crimson. Jos. Phillips showed a light pink seedling, Chester Pride X Grace Wilder, strong grower and very productive. Sec'y Shelmire had a clear yellow and two scarlets.

Mr. Rust stated that many carnation plants had died in the houses around Philadelphia, and the trouble continues. Considerable discussion as to lifting followed, showing a general leaning towards earlier transplanting from the field, and lifting, in light soil at least, at a dry time. As usual there was a contrary opinion. Mr. Eastburn reported digging his Daybreak at the close of a three days' rain with the best of success.

C. J. Pennock called attention to a new insecticide, "Lemon Oil," recommended for red spider, etc., a foreign product, spoken of very highly, and which he is testing.

Sec'y Shelmire suggested the desirability of having a committee to put the stamp of the society's approval upon seedlings as offered by the members. On motion a committee of three was appointed to pass upon seedlings as presented, none to be considered unless they are at least two years old. C. J.

Weak-Stemmed Portia.

Will some one kindly advise me why my Portia carnations are coming in with weak stem, seemingly to be hollow? What is the best temperature for them, or do they need to be grown cooler than other varieties? J.

"J." should grow Portia 50° at night, or a trifle lower will do no harm; 60° day when cloudy, 70° to 75° day when sun shines. Do not water overhead, and Portia like all other carnations will stand good rich manure water.

CHARLES H. ALLEN.

Answers to Questions.

No, I do not approve of syringing carnations, especially through the months of November, December, January and February. I have found very little trouble from the red spider during these months when ventilation and temperature are properly attended to, and the plants are in a good growing condition. A watchful eye can prevent their spread as they generally first appear in spots, and can be kept in check without subjecting the whole house to danger. But if the little pest takes a spread over the house energetic measures have to be taken and syringing is the only remedy. Do this on a sunny day at noontime, when the little insects revel in the warm sunshine. If you have a good pressure on your hose, and your benches have a good drainage, fire the water in a fine spray in and around and underneath the plants with force. No amount of water will hurt the plants if it can drain off in time. One thorough application once in a week or ten days is more effective in destroying the red spider, and less dangerous in fostering fungoid diseases, than two or three casual sprinklings a week overhead, when the water most times will not touch the spider, but is enough to keep the body of the plant constantly wet and invite fungoid diseases.

If the solution of sulphate of copper and ammonia is used as a preventive an application once in two or three weeks is sufficient. If used as a cure I would make it stronger and use it two weeks in

succession, but after this wait two or three weeks again. Ammonia is food, and there is danger from over feeding. I do not think that the copper would hurt, but to be effective it has to be thoroughly dissolved, and that takes a certain quantity of ammonia. When the solution is mixed with the water it should leave the water clear and only give it a bright blue color.
FRED DORNER.

Lack of Foliage on Lizzie McGowan.

My Lizzie McGowan carnations are throwing single stems very deficient in foliage, the flower stems being quite bare from the soil to a few inches below the flower, where there are a few side shoots. Can any one account for this peculiar growth?
SUBSCRIBER.

Dark weather will often produce results as above. I judge that during cloudy days you have allowed your soil to become a trifle too dry, very bad. An unusual number of side shoots is sometimes the result of a check in growth of stem due to cause stated.

CHARLES H. ALLEN.

Nitrate of Soda as a Stimulant.

A subscriber writes as follows: "I see Mr. Chas. H. Allen gives a recipe to prevent the bursting of the calyx of McGowan carnation, a stimulant of nitrate of soda, one pint to 50 gallons of water. Nitrate of soda comes in a crystal or scale costing 60 cents an ounce here. Thought there was a mistake, or it must be dissolved and used at a percentage. Would be thankful to know how it is."

Nitrate of soda will not alone keep the calyx from bursting, but it serves as a stimulant and tends to develop the buds quicker. I have found that a night temperature of 55° will lessen the bursting very materially; 50° I believe is too low. As to the cost of the nitrate of soda, I cannot imagine where subscriber purchased his supply, as it should not cost over fifteen cents per pound, and can be purchased of any wholesale druggist at this price.
CHAS. H. ALLEN.

How to Lay Out and Plant an Acre Plot for a Suburban Residence.

BY JOHN CURWEN, JR.

[CONCLUDED FROM LAST WEEK.]

If you have uncongenial neighbors so that you do not want to leave the lawns open, put up a fence of wire with cedar or iron posts, and plant vines over them. Clematises, roses, honeysuckle, trumpet vine, wistaria, etc. Do not trim them too much, but let them grow naturally and mingle with each other. Mention has been made of the hedge in front. California privet has lately come to be used to an enormous extent around Philadelphia and deservedly so, for it grows quickly when wanted for a screen, while on the other hand it will stand being trimmed to a very dense, low hedge, and has the further advantage of being cheap.

If greater protection is needed against stray animals, put the wire fence along the front too, but cover with only one kind of vines; or drive stout stakes in among the hedge plants, fastening the wire to them, and as the hedge grows if properly trimmed the plants will support the wires by the time the stakes are rotted off. It is a common practice to have simply a heavy chain stretched between posts to close the entrance to the drive when necessary, which is not often.

The best climbers for the porches are those which give the best shade and are least liable to disease or insect foes, for the remedies usually necessary to keep them off are often offensive either to the eyes or nose or both. Such should be used on the fences, posts or stumperies at a little distance from the house.

Be careful of the wistaria, for it will, if neglected twist the trellises out of shape and even break quite heavy woodwork. Planted over an old tree where it can run over the branches or on a stout post, where it will grow in tree form it is very attractive.

You have been wondering where the florist's share of the planting is to come in; well he is "in it" to a certain extent, but he must be a grower of hardy herbaceous plants as well as of geraniums, colens, etc., if he wants a very large share; for these latter are not to monopolize the flower beds by any means, but to fill up vacancies left by the early blooming perennials. Formal beds have their place such as a border along the porch or a mass of brilliant bloom against a background of shrubbery. A good knowledge of the various plants is necessary in planting the herbaceous border, to secure continuous blooming, and proper proportion in height. With proper selection such a bed will furnish abundance of bloom from March to November, and in a mild winter almost the year round.

There are many points which cannot be touched in a short paper of this kind; but let me recommend to any one who is interested in these matters, the magazine *Garden and Forest* which many of you are no doubt familiar with as the highest authority in such matters, then the amateur gardening papers and such books as Parson's "Landscape gardening," Ellwanger's "The Garden's Story," etc.

TWENTY ANNUALS:—Nearly all of these may be grown easily from seed:

Alyssum.
Asters (Truffaut and Comet).
Begonia semperflorans.
Canterbury bells.
French marigold.
African marigold.
Candytuft.
Carnation Margaret.
Cornflower, (bluet).
Cosmos.
Single dwarf dahlia.
Pinks.
Gaillardia.
Heliotrope.
Mignonette.
Nasturtiums.
Pansies.
Poppies.
Scarlet sage.
Sweet peas.
Verbena.

TWELVE HARDY HERBACEOUS PLANTS:

Narcissus in variety.
Lily of the valley.
Pæonies.
Iris, German and Japanese.
Pyrethrum (hybrid).
Coreopsis.
Delphinium (larkspur).
Hollyhock.
Bellflowers.
Achillea "The Pearl."
Sunflower (double and single).
Japanese anemone.

This list may be expanded by the following additions:

Phlox.
Columbine.
Poppies.
Dielytra (bleeding heart).
Asters.
Lilies.

Candytuft.
Chrysanthemums.
Funkia.
Hemerocallis.
Snowdrops.
Crocus.
White rock cress for massing.

New York.

The customary period of inactivity which we have learned to expect during the first two weeks of the year is now on and is none the less discouraging from the fact that it was expected. To convey any adequate idea of the demoralization that prevails in wholesale cut flower circles is next to impossible. In the whole range of cut bloom from the choicest down to the most inferior the stagnation exists and no one thing can be singled out as being more fortunate than the rest. Instead of attempting to describe present conditions in detail we will simply call attention to the record of past years which shows that unvaryingly about the middle of January a most pronounced revival has set in and it is not unreasonable to hope for a repetition this year or to look for possibly the beginning of improvement to appear by the time this note reaches our readers. The warm weather prevailing at time of writing which has the effect of emphasizing the glut can not continue long and wintry weather may help to bring much needed relief.

Pitcher & Manda have begun work on new grounds for herbaceous plants at Short Hills. The new tract comprises 75 acres and particular attention is to be given to the cultivation of useful specialties for florists' cut flower purposes. Another improvement at this establishment is the removal of the seed and bulb department to commodious quarters provided in a new building. In looking through the greenhouses one is forcibly struck with the large number of young kentias, arecas and other commercial palms. This is a gratifying pointer for it gives promise that the time is not far distant when in this country will be grown all the palms required for our own consumption. The salesmen report that they find interest reviving in show pelargoniums and the sale of Adiantum Farleyense both as plants and cut fronds increasing enormously. Marantas and dracenas on the other hand are apparently losing ground. Pandanus Veitchii is in very short supply and the demand can not be met. In the orchid houses there is promise of a gorgeous display of cattleyas and odontoglossums to come. Among the choice bits now in bloom are a very fine variety of Vanda cœrulea bearing a spike of 20 flowers, a Cypripedium Hebe purpureum and C. Leeanum and Arthurianum in profusion. The demand for orchid and anthurium cut blooms has been very gratifying the present season.

Great plans are being perfected with a view to making the forthcoming dinner of the New York Florists' Club an occasion which will eclipse all previous attempts. The decorations of the table will be unique, Mr. Warendorf promises, and contributors of flowers, etc. for this purpose can materially assist in securing this by giving advance information to the committee of the quantity and character of their intended contributions.

Twenty-eighth street is to have another accession to its list of wholesale florist establishments about February 1, when John Young will move from his present place on 30th street to 51 West 28th,



BELLE POITEVINE AND JAMES WESTON

KIOTO AND H. E. WIDENER.
CHRYSANTHEMUM VASES.

where he will have more than double his present room. Johnnie is everywhere popular and that he will secure his full share of the patronage with which 28th street is favored is a foregone conclusion.

Wm. Plumb, who has been in charge of Westview Floral Co.'s business at Atlanta, Ga., for the past two years, has returned to New York not over favorably impressed with the conditions of life in

the sunny south and willing to go on record to the effect that "New York is good enough" for him.

Edith Helen Taplin, youngest child of the late James Taplin, died on January 2d at the age of 26 years, after a six months illness with consumption. The funeral took place from her late home at Maywood, N. J., on Saturday, January 5, and was attended by many of the craft, to whom she had become endeared by her sweet disposition and patient fortitude.

News has just arrived of the death at Alexandria, Egypt, of Miss Gertrude, daughter of Paul Wilcox, rose grower of Montclair, N. J.

August Rolker & Sons have been appointed sole agents for New York and neighboring territory for the "Rose Leaf" extract of tobacco.

Lord & Burnham have opened a city office at 160 Fifth avenue with Mr. Lincoln Pierson in charge.

John A. Scollay and U. G. Scollay are both suffering from a severe attack of the grip.

H. A. Hoffman has moved from 24th street to 54 West 28th.

"The Rosary" has opened recently at 275 Fifth avenue.

Philadelphia.

Things have been quiet the past week in the stores, while the growers have been actively engaged in cutting flowers. As a consequence prices have declined like a sled on a toboggan slide, and there is great dissatisfaction in the growers' camp. When prices take their annual Christmas flight and roses rise from \$3 and \$4 a hundred up to \$15 and \$20 inside of about one week's time it is the retail dealers who do the kicking, while the growers view their padded slips and tell each other with more or less truth the great prices they got for their flowers. Now it is the dealers turn and as the hustlers hurry around from one store to another viewing well filled windows and ice boxes and trying to dispose of their stock at what they call the market price they find it different, very different, as prices have no stability and there seems to be no market price. It nearly broke one grower's heart when he found good Brides and Mermets had fallen from \$12 to \$10 when he supposed they were fixed at the former figure for a week or two, and next day when he came into town to see about it and found good stock selling for \$8 he had lots to say about the weak kneed growers that let the dealers make the prices. All the large teas are now (January 9) bringing \$8 to \$10, a few extra select are probably sold for \$12, but the bulk of the good stock is sold for \$10. Smaller roses, Perles, Gontiers, Cusin, etc., bring \$4 to \$6, the latter figures prevailing for most of the stock sold. Beauties are to be had at all prices, \$7.50 per dozen being the top notch, and from that down according to quality. Good flowers with from 15 to 24-inch stems bring from \$5 to \$6 per dozen, while 10 to 15-inch bring \$3 to \$4.

John Burton is sending some fine Belles, as good as Beauties in every respect, and a beautiful shade of pink. His stock of Beauties and Belles has been very fine all season.

All the stocks of roses now coming in are fine; Meteors, Brides, Mermets, Bridesmaids, Testouts are now to be had in large size, perfect form and color. Bridesmaid, Testout and Meteor are away ahead of last year and are no longer experiments, but have joined the bread winning class.

Carnations are becoming more plentiful, and as a consequence prices are down; last week any kind of a presentable flower brought \$3, now only the best will bring that sum; \$2 to \$2.50 is asked for good ordinary. Double violets are in good supply, and \$1.50 is top figure except for a very few fancy.

The January meeting of the Florists' Club was held in Dumler's Hotel opposite the hall, as the old room was flooded out with the rain. There was quite a good attendance, and while the paper on double violets was not read, a very interesting account of a visit to Mr. Vanderbilt's estate near Asheville, North Carolina, was given by Mr. Craig. He spoke of the work being done there, of the miles of roadways being laid out, and the borders planted with all kinds of shrubbery. Over a million plants were being raised each year and planted, and the whole place was one vast experimental station. Ex-President Smith thought so much of the place that he thought the S. A. F. should hold their annual convention there in the near future, as it would be to the advantage of every florist and landscape gardener to view this estate. Mr. Craig also spoke of the great work done by the tree commission in Washington, and hoped to see the same plan adopted in this city.

A regular attendant is to be at the club rooms every afternoon and evening, and it is expected there will be more life around there the balance of the season. It is not likely the building of the hall will be commenced until spring.

A very good white carnation was exhibited by C. J. Pennock called Kohinoor; it is a large flower on a fine stout stem and seems like a very good variety.

Mr. Christy also showed a very pretty light yellow with streaks and dots of red, it is a very pretty thing and is called Sunshine.

Mr. Arthur Mallon Jr. has sold his Ridge avenue business to Mr. Wm. Nakel, formerly with Hugh Graham. K.

Chicago.

Once again there has been a revulsion in trade almost unprecedented. Prices in roses particularly have taken a tumble such as is witnessed but seldom. It is not for the reason that stock is so very abundant, although the supply is fairly good, but business the past week has been almost at a standstill. In local retail circles there was practically nothing doing. The few orders for decorations here and there hardly caused a ripple on the surface of the market, and down, down went the prices until they reached a summer level. Fairly good roses were sold at 2 cents, and job lots for considerably less. Beauties have suffered little, first quality being \$4 to \$5 per dozen. Bridesmaid is in excellent demand, and so is Testout; best quality of these go at \$6, with a few extra select a little higher. Brides of first quality have dropped to \$5 and \$6; most of the stock, however, brings much less.

Carnations have held their own fairly well. Good commons bring \$1.25 to \$1.50, and fancy \$2 to \$3, extra well grown in a few instances commanding the top figure of \$4. Violets have to be extra fine to bring \$1.50; the bulk goes at \$1 to \$1.25.

Bulbous stock of all kinds is still very scarce, except Romans, which are coming in more freely; these are in quite active demand at \$3 to \$4. Valley brings \$4, and is also quite active. Paper whites are slow at \$3 to \$4. Harrisii sells well,

and in spite of the general depression commands good prices. Some extra fine flowers still bring \$2 per dozen.

The shipping demand has been extremely quiet, but as prices are now down to rock bottom the commission dealers are looking for a more lively business in this direction.

Anthony & Curran have gone out of business as a firm, their place of business on Wabash avenue being closed January 10. J. T. Anthony will continue at his old place, 3425 Prairie avenue, while Joe Curran's present address will be 231 Wabash avenue.

Joe Craig closed his place at 82 State street January 6—no cards.

At the Florists' Club meeting last Thursday evening Mr. Ed. Winterson was elected financial Sec'y for the remainder of the annual term. At the next meeting Mr. W. L. Palinsky will read a paper on pansies and at the first meeting in February Mr. E. Wienhoeber will read a paper upon flowers not usually to be had at the wholesale dealers, but which could be profitably grown and would give the needed greater variety to the stock of the retailer.

Denver, Colo.

Christmas trade was not quite as good as anticipated, but quite fair after all. The demand for Beauties was not at all up to expectation, which was a good thing for us, as the supply was very limited. What were sold brought from \$15 to \$25. Good Testouts, Bridesmaids, Woottons, Brides, Kaisersins and other first-class stock sold readily at \$4 to \$5. Daybreaks brought \$1.25 to \$1.50, other carnations sold at \$1. Valleys sold at \$2, paper white at \$1, and other stock in proportion. Taken in all the holiday trade was not as good as past years.

Quite a lively competition has sprung up in the retail trade lately. The Park Floral Co. opened a fine large store at 1137 16th street November 1 and have been doing a fine business up to date; Mr. Chas. Theis is in charge. Daniels & Fisher, the largest dry goods house in the west, added a cut flower department to their establishment December 15, but as yet have not made any perceptible difference in the trade of the legitimate florists. (Probably on account of their not being able to secure any flowers in this market.)

N. Barkalow, late of Omaha, Neb., opened a retail store at 612 16th street December 1, but after a 30 days' trial decided that the profits of the floral business were not as large as they are thought to be, and being a good business man closed his store before he lost any money.

The Colfax Floral Co. report a fairly good trade at their two stores and a rushing trade at their greenhouses.

Mr. John Berry, the president of the Denver Floral Society, is visiting his old home in Ireland; will not return to this country until some time in the spring. During his absence Mr. B. will visit many of the prominent establishments of the old country and America, and we all await his return with impatience, knowing as we do that he will have much to tell us that will be both entertaining and instructive.

A. Mauff has joined the ranks of the Benedicts and has taken to himself a better half. The good wishes of the entire community go with the young couple.

Harrison H. Given has closed his city store and will give his entire attention to the wholesale cut flower trade and his large catalogue business.

A visit to the many greenhouse estab-

lishments in and around the city shows a decided improvement in the quality of the stock grown over preceding years.

A grand inaugural ball will be tendered Governor-elect McIntyre January 8 at the Brown Palace Hotel, also a formal reception at the Broadway Theatre on the same date. The floral decorations will be lavish; Mrs. C. R. Gallup will decorate the theatre and the Park Floral Co. will do the hotel.

The Denver Club gave their annual holiday reception and ball at their fine clubhouse December 27; the decorations by Mr. A. M. Lewis (Colfax Floral Co.) were elaborate and artistic.

The city park commission are adding two houses, each 18x100, to the present range. This addition will give the city four fine houses large enough to grow a large stock of bedding plants for our park system.

Connor & Flohr of Canon City, Colo., have opened a branch store at Pueblo.

Mr. G. H. Smith has purchased the good will and business of the Colorado Florist Co., 520 16th street. H. H. GIVEN.

Washington.

Christmas weather in Washington was all that could possibly be desired. All the week before and until after Christmas day it was mild and bright, bringing out the flowers and shoppers as well. The thermometer registered about 8 degrees of frost Christmas morning, which made it comparatively easy for delivering plants and flowers. Trade was unusually good, most of the florists disposed of all their stock before the day was half over, and at good prices too. Several of the store florists say it was the best Christmas they have had since they have been in business. Flowers were plentiful early in the day, and the quality very good. Very few had provided for an unusual demand; judging from the dullness of business in general they naturally thought the florist's business would feel the same fate. All were well pleased with the holiday trade and say business has been very good ever since.

Roses were plentiful and of very good quality; almost every one selling out before the day was over. Prices were as follows: Beauties 75 cents to \$2 each; Cusins \$2; La France \$3 to \$5 per dozen; Brides \$3 to \$5; Meteors \$3 to \$4; Perles \$2; Golden Gate \$5 to \$8; Gontiers \$1.50 to \$2; Kaisersin \$4 to \$6; Brunners \$15 to \$18; Mermets \$5; Bridesmaid \$5.

Carnations were plentiful, of good quality and in great demand. There was very little sleepy stock to be seen, though the growers had left them on the plants as long as possible expecting to get holiday prices, which they did. They retailed from 50 cents to \$1 per dozen. Violets were plentiful and of good quality and in great demand; they sold well at from \$2 to \$3 per hundred, the ruling price being \$2. Valley was scarce and but little in demand, bringing from \$1 to \$1.50 per dozen. The best valley coming to our market now is from Boston. Romans were plentiful and of excellent quality retailing from 50 cents to \$1. Narcissus were plentiful and good bringing 75 cents. There was but little demand for bulbous stock, it being mostly disposed of in boxes of mixed flowers only.

There was quite a demand for blooming plants such as azaleas, cyclamens and poinsettias. The supply was nowhere equal the demand. The demand for poinsettias was something unusual. There was only a limited supply of azaleas in flower, and they were soon disposed of; a

few specimen plants brought \$10, the average plant bringing from \$3 to \$5.

REYNOLDS.

St. Louis.

The shipping for New Year's day was above the average, in fact the shipping all through the season has been in advance of any previous year. Christmas was followed by a cold wave which remained during the holidays, the lowest point touched being zero; this following the hard cutting for Christmas has kept stock scarce, and the market has been firm in consequence. Southern grown violets have been scarce owing to the freeze, and Am. Beauties appear to be in shorter supply than usual.

The cold wave tested the heating capacity of all the establishments. The heater in one of the stores of the Ayers Floral Co. went wrong and all stock had to be moved to the remaining store. F. J. Fillmore was caused considerable inconvenience by one of the sections of his Florida "twin boilers" cracking; the remaining one, however, managed to keep the frost out with the assistance of a few fires in the most exposed houses; the small amount of damage was caused principally by smoke.

Thos. E. Carroll, who changed his entire place to steam with the single pipe system during the past summer was seen after the cold wave and was highly pleased with the working of the system and the ease with which the place was kept under control. With a good grade of soft coal the boiler can be left for two hours at a time, this being about the limit.

His carnations as a whole are looking well, there being a few varieties, however, which do not come up to the general standard. Uncle John is badly affected with the rust, and some of the other varieties are showing it. Copper solution is being applied and will doubtless check its spread. Lizzie McGowan behaved badly after having received the first syringing with the solution, it having appeared to kill the edges of all the exposed petals in the bud stage, causing them to become gummy and bend, thus preventing the proper opening of the flower, they appeared about as bull headed roses do at their worst. A fine batch of Buttercup was noted; they were grown during the summer in pots and planted directly in the benches from them; the best returns are made from this variety when three or four flowers are left on one stalk.

R. F. T.

Toronto.

New Year's business though nothing extraordinary was fairly good and there appeared to be enough flowers to go round. Now there is of course a lull, but I hear no serious complaints yet and it is probable that trade for the time of year is about normal.

There has been a great demand for palms all through the holiday season. Kentias have by far the greater call.

Many of the florists have been out to Messrs. Miller & Son's place to see the new white carnation "Bride of Earls-court"; all the reports given so far are that it is a good thing, stiff stem, good calyx, lasting, prolific and a large flower. It was raised by Mr. Geo. Hollis of Davenport three or four years ago, who sold his whole stock to Messrs. Miller & Son. It was shown at the late chrysanthemum show but not under favorable conditions.

Rumors of a combine between the pri-

ncipal rose growers are still flying about. There is no doubt that matters might be improved but I can't quite see how a combine is going to do it. Would not efforts be better directed if aimed at increasing the demand for flowers instead of trying to elevate prices or limit the supply?

Mr. John Cotterill met with a sad loss last week. His mother, on her way home from town just after getting off the street car, had a stroke of apoplexy and died immediately. Mr. Cotterill has the sincere sympathies of all the trade in these parts.

Six degrees below zero in Cincinnati, Ohio, I see, and 4° below in Toronto, Canada. Something must be loose somewhere. The thermometer stands at 40° to-day (7th); hard times for the coal man but "tant mieux pour les autres." E.

Buffalo.

Contrary to reports from some other cities New Year's business was better than last year. New Year's day was fine and everybody was busy. It has been for many years a very quiet time compared to Christmas, but the one just passed was an improvement. Since that happy time everything has been very quiet, and the chief occupation has been bill making and collecting, or an attempt at it.

There has been no large entertainments of late excepting the annual ball of the aristocratic Buffalo Club at their beautiful home on Delaware avenue. The aristocratic Delaware avenue florist, Mr. C. F. Christenson has a cinch on that every year; evidently Mr. C. must do it up in full style, for no one else is consulted.

There are sufficient flowers coming in just now, and prices have got down to normal winter rates. Mr. Long is receiving some very fine roses at present, particularly Bridesmaids. Violets plentiful and of fine quality.

The monthly meeting of the Florists' Club was held at the conservatory of J. H. Rebstock on Tuesday last. The attendance was not what it ought to have been. There was not much besides routine business transacted, after which we were invited to partake of Joe's hospitality. Oh, my! fizz, pop, and everything else you could think of. Those who were there will long remember it; those who were not there are weeping and gnashing their teeth.

For the benefit of those few who know the locality in this city known as Cold Springs I wish to inform them that an enterprising public caterer has built a superb bowling alley; it is nearby a range of greenhouses that some of you know, and close to a little room where rest in peace the trophies won at Atlantic City. If any wandering florist thinks he can roll a skillful ball let him call!

W. S.

Baltimore.

The weather clerk seems to have concluded to give us every possible variety of weather in as short a time as may be. Last week's excessive cold dissolved in a gentle warm rain, and for two days spring was here, as far as sunshine and temperature were concerned, but alas! the brief respite was followed by a mixture of rain, snow, sleet and cold winds that made life a burden to the unhappy mortal that had to be out in it. Needless to say the business of the florist does not boom under such circumstances. Particularly when we consider that there is a sort of economical taint in everybody this year, and

even the swell young man inquires the price very carefully before having his American Beauties or violets put up.

Carnations are about the only thing not in heavy supply. Violets are plentiful and fine. Roses of all kinds are good and plentiful.

MACK.

Boston.

The problem before the Gardeners' and Florists' Club at the January meeting was the election of a president and vice-president, the candidates previously elected having declined to serve. The matter was finally settled by the election of Wm. J. Stewart for president and Lawrence Cotter vice-president. The persistent refusals of both those gentlemen being effectually voted down and amid much good nature and profuse thanks to all the retiring officers and committees the new incumbents were inducted into office.

An invitation from the New York Florists' Club to attend the annual supper of that organization was read and accepted with thanks.

The essay by Mr. Barker, which appears in this issue, was listened to with great interest and the essayist made a most favorable impression, especially in the discussion which followed, wherein he was plied with cross questions innumerable by Jackson Dawson, Keeneth Finlayson and others. Mr. Dawson acknowledged that Cornell University was engaged in a most useful work and expressed the hope that they would publish not only their successes but also their failures, a record of the latter being fully as useful as of the former, to which Mr. Barker replied that all experiments are faithfully chronicled whether successful or otherwise and full accounts would appear in their bulletins from time to time and promised further that he would tell the club more of the practical side of the work at Cornell at some future time. He exhibited a large number of interesting photographs showing processes as conducted in the various lines of horticultural investigation.

The past few days have been among the worst ever experienced by the cut flower men at this season of the year. The story is the same at the market, among the wholesalers and among the retailers. Prices have taken a precipitate tumble, and are at present writing not much better than those prevailing in mid-summer. It is confidently hoped, however, that with the end of the present warm muggy weather something like a restoration of winter rates will be possible.

Springfield, Mass.

Dealers report their stock pretty well exhausted, which fact is not at all strange in view of the tremendous trade which was experienced on Christmas and New Year's. The demand for flowers on New Year's was greater than for several years past, the favorite flowers for table decorations being roses, scarlet tulips and smilax.

C. F. Fairbanks has concluded to discard the Mermet rose this year and in its stead will grow the Wootton, which is considered to be the best red rose in this section. During the holidays Mr. Fairbanks made a specialty of Harrisii, and the demand exceeded the supply. He contemplates increasing his glass next spring.

The annual meeting of the Amateur Horticultural Society was held last Friday and the following officers were elected for the ensuing year: President, Rev. A.

M. Spangler; first vice-president, C. L. Simons; second vice-president, C. E. Bullis; third vice-president, H. N. Packard; secretary, George H. Lapham; treasurer, L. D. Robinson; board of finances, George Gengenbach, C. L. Burr and Joseph Aumer. The election of the board of directors was postponed until the 18th inst. At that time the board will be enlarged from 14 to 44 members. The report of the treasurer showed over \$1,000 in the treasury. The present membership of the society is 940.

The firm of A. F. Leonard & Co., one of the oldest seed houses in the state, has been reorganized, and a stock company formed under the corporation name of the A. F. Leonard Company. The concern sprung from the old New York Floral Company, which was purchased by Mr. Leonard in 1889. The new corporation starts with a capital stock of \$15,000.

In town: H. B. Tucker of Collins & Tucker, Ware, Mass. F. W. J.

Cincinnati.

We are experiencing the dull times that usually follow the holidays. The retail cut flower trade remains good. The growers are complaining about the severe cold weather we are having; it makes the coal pile sick with very small returns. The river is rising very fast and the florists around Cummingsville are afraid of another flood.

Louis Kyrke & Co. of Walnut street made an assignment January 7; dull times and poor collections were the cause.

Mr. Jackson of South Covington, Ky., left home day after New Year's, and his family are anxious to hear from him.

P.

Galt, Ont.

All agree that the holiday business was very good, and better than usual. Supply not equal to demand.

Mr. A. Common intends to build another new house, about the size of the one erected last fall.

John Wells has just completed a fine new house. A. Oliver has added some 20 feet to his house.

Hugh McCulloch Esq. contemplates building a new conservatory and it will no doubt excel anything in Galt.

MAC.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advts. not admitted under this head.

SITUATION WANTED—By a German, rose, carnation, violet and lily grower; 25 years' experience. J. W., care Chas. Lindacher, Canton, O.

SITUATION WANTED—By young man in seed trade, 12 years' experience. F. W. B., care Mr. Gibbona, 44 Forest St., Jersey City, N. J.

SITUATION WANTED—By a gardener and florist, 20 years' experience, 40 years of age, single; first-class references. J. J., P. O. box 68, Riverdale, Ill.

SITUATION WANTED—Cut flower arranger, charge of store; first-class designer and decorator, many years' experience. CAPABLE, care Am. Florist.

SITUATION WANTED—By a single man in greenhouse; private or commercial; 4 years' experience; steady and reliable. A. J., care Am. Florist.

SITUATION WANTED—By February 1, as foreman in first-class commercial place; 11 years' experience; single. Address A. RASMUSSEN, 310 Liberty St., Warren, Pa.

SITUATION WANTED—In a private place; 6 years' experience with orchids, stove and greenhouse plants; good references, age 21. Address A. B., Summit Post Office, New Jersey.

SITUATION WANTED—As foreman by a first class rose grower and general plantman; 19 years' experience, sober and reliable, married; good references. Address C. M., care American Florist, Chicago.

SITUATION WANTED—As all round florist; good propagator, growing roses, carnations, chrysanthemums, palms, ferns, bulbs and general stock; single; 19 years' experience. R. S., care American Florist.

SITUATION WANTED—To any one wishing a first-class foreman for commercial place, we take pleasure in recommending a thoroughly practical man; single, age 23; now in our employ. Address HONAKER, Lexington, Ky.

WANTED—Managing lady florist, retail store, Duluth. Address BRANT & NOE, Forest Glen, Ill.

WANTED—A man who is well up in general greenhouse work as helper; state wages wanted. J. F. WILCOX, 1132 Pierce St., Council Bluffs, Ia.

WANTED—Catalogues and price lists of greenhouse material, boilers, glass, ventilating apparatus, etc., by ROBT UNGER, Hanecom Park, Omaha, Neb.

WANTED—An experienced florist and forcing vegetable grower, who speaks English; must be strictly trustful and sober; steady work at \$10 per month and board; single young man preferred. MATH. KRANZ, Great Falls, Mont.

WANTED—A good all round greenhouse man. Must be honest, sober, industrious; a good propagator of common stock and have some experience in packing plants for the mail and express trade. Young or middle aged, single man preferred. Write, giving references and stating wages expected. Address L. W. GOODELL, Fanny Park, Dwight, Mass.

FOR SALE—Splendid florist store in Brooklyn, one of the best; owner going into other business. Address W. J. STEWART, Am. Florist, Boston, Mass.

FOR SALE CHEAP—Florist business, \$5000 a year, in Pueblo, Colorado. Best trade in the city. Apply to PUEBLO FLORAL CO., 325 W. 9th St., Pueblo, Colo.

FOR SALE—Dean combined steam boiler and pump, 4-horse power, 1 1/2 inch suction, 14-inch discharge pipe; good repair. Cost new \$300; price \$150. Write for particulars. C. E. ALLEN, Brattleboro, Vt.

FOR SALE—A hot water heating apparatus of Hitchcote 4-inch pipe, enough to heat 2 houses 50x22; also one 6-foot boiler, can be used for wood or coal. For sale cheap. CHRIS KNOT, Portsmouth, O.

FOR SALE CHEAP—Greenhouse, fifteen acres land, lease to run about three years (and can be renewed), a nice stock of berries of all kinds; greenhouse extra well stocked. Fifteen hundred feet hot-bed ash and all necessary implements. Inquire J. D. LITTLE, Agent for Mrs. E. Wilson, Springfield, O.



GREVILLEA ROBUSTA.

FRESH SEED; CROP '94.
OZ. \$1.00; PKT. 25c.

Largely used for veranda boxes and centers of vases. A very useful plant and easily raised from seed. Grows rapidly; will stand a lot of rough usage, and often takes the place of a valuable palm as a pot plant.

I make a specialty of choice Flower Seeds for Florists. 18 years' experience. Send for list.

G. C. WATSON,
Wholesale Seed and Bulb Merchant,
PHILADELPHIA, PA.

Stock plants Verbenas, first-class colors, \$2 per 100
Stock plants Bullercup Carnations, fine plants,
6 to 8 cts.
Gladiolus, mixed, light shades predominate, \$1 per
100. Small bulbs of above for florists' growing.
McCREA & COLE, Battle Creek, Mich.

The "Big Four"

CARNATIONS:

WM. SCOTT.
ALBERTINI.
DAYBREAK.
MCGOWAN.

Grow the "Big Four"
And Get "On Top."

Prices: Per 100	Per 1000	
Scott, . . .	\$3 00	\$25 00
Albertini . . .	3 00	25 00
Daybreak . . .	2 50	20 00
McGowan . . .	2 00	15 00

Selected, Healthy, well Rooted Cuttings.

Terms Cash with Order or before Shipment. If wanted C. O. D. remit one-third.

ALEX. McBRIDE,
ALPLAUS, N. Y.

CARNATIONS

WM. SCOTT, the best pink.
GOLDFINCH, the best yellow.

Send for list of Rooted Cuttings of these and all the best varieties.

GEO. HANCOCK & SON,
GRAND HAVEN, MICH.

CARNATIONS & VIOLETS

5000 DAYBREAK	Per 1000 \$15.00
5000 SILVER SPRAY	10.00
5000 LIZZIE MCGOWAN	12.50
LADY CAMPBELL VIOLETS, well rooted runners	10.00

Immediate delivery for cash.
JOSEPH RENARD, Unionville, Chester Co., Pa.

CARNATIONS.

Rooted Cuttings. No disease. Stock true to name. Sample Free.

Daybreak, Tidal Wave	\$2.00 per 100; \$16.00 per 1000
Silver Spray, McGowan	1.75 per 100; 12.00 per 1000
Helen Keller	6.00 per 100; 50.00 per 1000

READY NOW.—LAKE GENEVA FLORAL CO., LAKE GENEVA, WIS.

CARNATIONS.

ROOTED CUTTINGS.

Will take orders until April 1st.	
Helen Keller, Bouton d'Or	\$ 5.00 per 100
Wm. Scott, Albertini Mrs Reynolds	20.00 per 1000
Daybreak, Wabash, Richmond	15.00 per 1000
McGowan, Puritan, Portia, G. Wilder 12.00 per 1000	
Tidal Wave, S. Spray, White Wings	10.00 per 1000

A. T. JACKSON, Station X, CHICAGO.

NOW is the time to plant VERBENA SEEDS

The progressive kind will meet your needs, and make a grand sensation. 'Tis the kind that spans the silver half and makes progressive Florists laugh, and saves them much vexation.

New crop now ready. None but the best XXX seed offered. Will produce some grand novelties. We've had flowers 14 inches across. First Premium at Mt. Holly Fair this year. 3/4 oz 60c; 3/4 oz 11; 1/2 fl oz 10c.

Hand hybridized Double Petunias, Dreer's; none better. 500 seeds 60c; 1000 seeds \$1.00.

Single fringed, Dreer's and California Giant blended, saved from the most magnificent show varieties in cultivation. 500 seeds 30c; 1000 seeds 50c.

Dwarf French Gold striped Marigold, minkes nice pot plants for spring sales. Trade pkt. 25c.

Dwarf Marquette Carnation, all saved from the double flowers. Trade pkt. 25c. Lots of other good things. Novelty price list free to all. Cash with order please. Address J. C. GIBSON, WOODBURY, N. J.

Clematis Jackmanni.

One year, nice dormant stock, for putting up for Spring sales, \$2.00 per dozen; \$12.00 per 100. All home grown. F. A. BALLER, Bloomington, Ill.

Always mention the American Florist when writing to advertisers.

CHITTY'S NEW PRIZE CARNATIONS

For 1895.

ALASKA—The Best and purest white ever offered.

CORSAIR—The scarlet McGowan.

MAGNET—Beautiful magenta rose.

LITTLE GEM—The dwarf J. J. Harrison.

MINNIE COOK—Superb variegated sort.

See full page illustrated advertisement of above in American Florist December 1st and 8th.

FOR DESCRIPTIVE WHOLESALE PRICE LIST

ADDRESS **H. E. CHITTY,**
PATERSON, N. J.

WANTED!

A good, free blooming, healthy, vigorous **Yellow Carnation**. Flowers must be perfect, of fair size and borne on long, stiff stems. There must be plenty of pips, and these easily rooted.

AND HERE IT IS—Any one of the following will fill the bill:

ELDORADO—Pure yellow ground edged with light pink. Picotee marking.

KITTY CLOVER—Light yellow striped red with a little white.

EULALIE—Yellow ground penciled with pink.

We also offer this year

PRINCESS BONNIE—A beautiful pink variegated flower of large size; and
DAISY BELI—A white, variegated similar to Chester Pride, but very much larger flower.

Send for general price list of both Carnations and Coleus.

W. R. SHELMIRE,
AVONDALE, Chester Co., PA.

THE COTTAGE GARDENS,

Queens, Long Island, N. Y.

WHOLESALE CARNATIONS.

New Carnations our Specialty

FRED. DORNER & SON,
FLORISTS,

LA FAYETTE, : : INDIANA.

Carnation Mrs. Fisher
IMPROVED.

Strong Rooted Cuttings, free from disease,
\$2.00 per 100; \$15.00 per 1000.

CHARLES EVERDING, Branford, Conn.

Carnations, Ready Now

PER 100. PER 1000.
WM. SCOTT, from sand = \$3.00 \$25.00
LIZZIE MCGOWAN, from sand 2.50 20.00

The above varieties are from special selected stock. Plants from soil will be ready February 15th.

CHARLES H. ALLEN,

Please send cash with order. **FLORAL PARK, N. Y.**

CARNATIONS. I OFFER TO THE WHOLESALE TRADE A SEEDLING WHITE
The choice from over 400 varieties after three years' trial. **KOHINOOR** { Mountain }
of Light.

It is the best white I have ever grown. Plants robust, stems long, stiff and erect, flowers full, deeply fringed and extremely attractive, measuring 2 1/4 to 3-inches across without any forcing or disbudding. Comes quickly into BLOOM and CONTINUES PROLIFIC THROUGHOUT THE SEASON.

Flowers 2 1/4 to 3 inches across, on stiff erect stems 2 1/2 to 3 feet long, of the habit of McGowan but much more prolific; a striking and attractive shade of pure purple, a novelty in color, very taking, and entirely distinct from the purple maroons and so called purples. Price on the above varieties, \$12.00 per 100; \$100. per 1000.

My stock of Standard and New varieties has never been better than at present, and includes:

Sweetbrier, Stuart, Wm. Scott, Daybreak, Buttercup, Blizzard,	Thos. Cartledge, Caesar, Brutus, Anna Webb, Ferd. Mangold, Mrs. Fisher.	All at moderate prices, with regular discounts. I grow nothing but Carnations, and EXCLUSIVELY for Cuttings and Plants. My stock is rooted cool and is unusually healthy and vigorous. Inspection and correspondence solicited. Price List on application.
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THE PINES. C. J. PENNOCK, KENNETT SQUARE, PA. Chester Co.

"THE CARNATIONS."

WM. SCOTT, Rooted Cuttings.....	Per 100 Per 1000	DAYBREAK, Rooted Cuttings.....	Per 100 Per 1000
LIZZIE MCGOWAN, Rooted Cuttings..	\$3.00 \$25.00	ALBERTINE, Rooted Cuttings.....	\$2.50 \$20.00
TIDAL WAVE, Rooted Cuttings.....	2.50 20.00	BOUJON D'OR, Rooted Cuttings.....	3.00 25.00
			8.00 70.00

Of the above lot we are booking orders for early delivery. We have some Wm. Scott now ready. We call particular attention to our stock of Wm. Scott, which is extra fine. Lizzie McGowan, the best we have ever seen. Tidal Wave does particularly well with us and is remarkably good. The other varieties we offer are also in fine condition. As we have the control of JEROME A. SUYDAM & CO'S stock, together with our own, it will compare favorably with any yet offered. Special prices on 10,000 lots. CASH WITH ALL ORDERS.

DAILLEDOUZE BROS., FLATBUSH, BROOKLYN, N. Y.

WE OFFER **25,000 Rooted Carnation Cuttings.**

ABSOLUTELY FREE FROM RUST OR DISEASE,

10,000 Daybreak, 5,000 McGowan, 5,000 Spray, 1,000 Garfield, 1,000 Portia, 2,000 Grace Wilder, 1,000 Harrison,

At \$2.50 per 100 or \$20 per 1000 by mail postpaid. Well rooted and free from rust and disease.

THE HARRISON H. GIVEN FLORIST CO.,

Address mail 620 Charles Building. E. A. Wood, Manager. DENVER, COLO.

Booking Orders NOW

— FOR —

WILLIAM SCOTT, Per 100 Per 1000
\$3.00 \$25.00

Strong HEALTHY plants FROM THE SOIL for early SPRING DELIVERY.

MRS. FISHER, For Summer Blooming Ready NOW.

Per 100, \$2.00, Per 1000, \$15.00.

Send for price list of other

NEW AND TESTED CARNATIONS.

FISHER & AIRD,

Norfolk Co. ELLIS, MASS.

Carnation Cuttings

NEW AND OLD VARIETIES.

Good, healthy stock, well rooted, ready by January 1st, 1895.

Rooted Cuttings GIANT DOUBLE ALYSSUM, VIOLETS, COLEUS, ETC. Write for prices.

E. J. CLOUD, Avondale, Chester Co., Pa.

Carnation Wm. Scott.

The best and most profitable Carnation. It is the most productive. It is the strongest and healthiest grower. In size it ranks with the best. The flowers bring the highest price.

Rooted Cuttings, \$3.00 per 100; \$25.00 per 1000. GUARANTEED FREE FROM RUST.

E. J. PADDOCK, Station F, Cleveland, O.

OPHELIA.

A large pink CARNATION, a little darker than Scott. Winner of Craig cup for best seedling at Philadelphia, in spring of '93; will be ready for distribution Feb. 1st, at \$10.00 per 100; \$80.00 per 1000. Those wishing to list it please write.

MOST LEADING VARIETIES READY AT SAME TIME.

MRS. FISHER.

(For summer blooming), now ready, from soil, at \$12.50 per 100.

LADY CAMPBELL VIOLET, Rooted Runners ready, at \$2.00 per 100; \$15.00 per 1000.

EDW. SWAYNE, Kennett Square, Pa.
Mention American Florist.

50,000 Carnations. ROOTED CUTTINGS.

Ready January 1st. Positively no Rust.

Send for Price List.

Wm. Swayne,

P. O. Box 226. KENNETT SQUARE, PA.

CARNATIONS

50,000 Rooted Cuttings.

Clean and healthy, now ready, including Wm. Scott and other profitable varieties.

Send for price list to

JAMES HORAN & SON, Bridgeport, Conn.

THE AMERICAN FLORIST

Subscription \$1.00 a Year. To Europe, \$2.00.

Advertisements, 10 Cents a Line, Agate;
Inch, \$1.40; Column, \$14.00.
Cash with Order.

No Special Position Guaranteed.

Discounts, 6 times, 5 per cent; 13 times, 10 per cent;
26 times, 20 per cent; 52 times, 30 per cent.
No reduction made for large space.The Advertising Department of the AMERICAN
FLORIST is for Florists, Seedsmen, and dealers in
wares pertaining to those lines ONLY. Please to
remember it.

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

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

Address THE AMERICAN FLORIST CO., Chicago.

Valley Pips in Cold Storage.

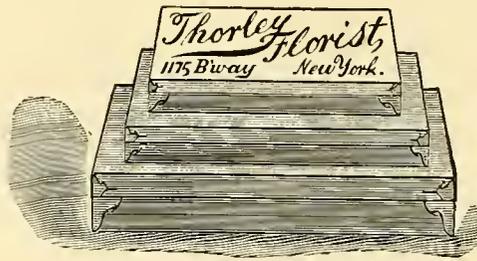
From "J. D." comes an enquiry as follows: "What is the best way to keep valley pips in cold storage? Will they keep best in bunches without earth or is it best to heel them into soil, and what temperature is best for them when in storage, the pips to be kept over till summer?" How large growers keep great quantities not only till summer but to the following fall I don't know. My experience is for a limited quantity. Unpack when received; don't untie the bunches. Put the bunches in boxes with a little earth or moss between each bunch, and the box must be deep enough so that you can nail slats on top, cover the tops of the pips with earth sufficient to just hide them. Why I say nail slats on top of box is because if you have to pay for cold storage you can then place any number of boxes one on top of the other, which would make a great difference in the charge; 500 pips in each box is a convenient lot to handle, and what a small grower would be likely to want for each batch. The temperature should be below 32° continually, but as little below as possible. If they could be kept at 30° regularly that would be ideal. You can keep the pips on your own place without the assistance of cold storage till the middle of March, but they must not have made the least move before putting them in cold storage if the best results are wanted. I have no doubt very large growers keep them over summer in the original cases in which they are imported. I received from a New York importer in November last some valley which had been in cold storage all summer in the original cases, never unpacked. They had not started in the least and were put in the sand on December 1 and proved most satisfactory. A case (2,500) is rather a large quantity for the retailer to grow for his own trade, therefore adopt the plan first suggested and which I have found works well. W. SCOTT.

LENOX, MASS.—E. J. Norman is joyful over the birth of his first boy.

GREENWOOD, MASS.—The business of Lowe & Baxter will hereafter be carried on by J. K. Lowe Jr.

NEW BRITAIN, CONN.—It is announced in the New Britain *Herald* that Edward Eggert, the florist, has made an assignment for the benefit of his creditors.

MONTREAL.—Mr. Jos. Bennett has built on his new place at Lachine two houses 150x18, one 150x16, and one 150x11. He has put in a 75-horse power boiler with a view to future additions. Low pressure steam is used. Roses, carnations and violets are grown.

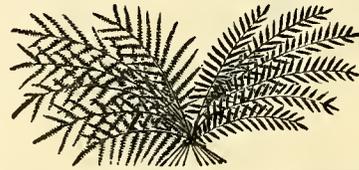


The boxes as they appear when set up for use.

We make them in a sufficient number of sizes, including for violets, to meet all necessary requirements.

THE NATIONAL FOLDING BOX & PAPER CO.,

NEW YORK SALESROOM: 132 & 134 Franklin Street. 315--325 Congress Ave., NEW HAVEN, CONN.

**Hardy Cut Ferns,**

BOUQUET GREEN,

Laurel and Green Festooning, Wreaths, Etc.

SPHAGNUM MOSS IN ANY QUANTITY.

H. E. HARTFORD, 18 Chapman Place, BOSTON.

FOLDING
PAPER
BOXES
for CUT
Flowers.Made from Water-proofed, Double Manilla lined,
Strawboard. Shipped flat, packed 100 in a crate.**CHICAGO FOLDING BOX CO.,**Jackson & Clinton Sts., CHICAGO.
TELEPHONE MAIN 4718.**Z. De Forest Ely & Co.,**WHOLESALE COMMISSION
DEALERS IN**CUT FLOWERS.**Roses, Carnations, Chrysanthemums,
Valley, Violets, etc.

1024 Market Street, PHILADELPHIA, PA.

Mention American Florist.

SAMUEL S. PENNOCK,
Wholesale FloristREAR OF 42 S. 16th STREET,
Philadelphia, Pa.**CUT SMILAX.**

15 Cents per String.

Elegant Stock Now Ready.

THE NATIONAL PLANT CO.,
Dayton, Ohio.**Cycas Leaves. FRESH CUT**
each 75c.**VAUGHAN'S SEED STORE,** P. O. Box 688, Chicago.

MILWAUKEE, WIS.—At the annual meet-
ing of the Milwaukee Florists' Club, held last
Tuesday, officers for the ensuing year
were elected as follows: J. M. Dunlop,
president; W. Freitag, vice-president; A.
Klokner, secretary, and H. Haessler,
treasurer. The trustees chosen were N.
Zweifel, W. Ellis and W. S. Scott.

BRIDGEPORT, CONN.—Christmas trade
was about 25% larger than last year.
Retail prices same. Supply short. Marked
increase in the call for violets. Demand
was exclusively for boxes of loose flow-
ers. No bouquets or baskets. Owing to
fine weather there was quite a demand
for holly and immortelles for decorating
graves in the cemeteries.

"The National"

Folding Flower Boxes are the best
and most convenient ever put upon
the market. They are made from
board, manufactured especially for
these goods, and made so as to resist
moisture, thereby keeping the flow-
ers fresh, and the box holding its
shape.

Asparagus Plumosus Nanus.

Cut Strings, 8 to 10 feet long,

50 CENTS.

W. H. ELLIOTT, Brighton, Mass.

DAN'L B. LONG,
WHOLESALE CUT FLOWERS,

495 Washington St., BUFFALO, N. Y.

SHIPPING ORDERS CAREFULLY ATTENDED TO.

OTHER SPECIALTIES:

Florists' Supplies, Wire Designs, Bulbs,
Long's Florists Photographs,
Catalogues, Lists, Terms, etc., on application.**W. ELLISON**
WHOLESALE
Cut Flowers & Florists' Supplies

WIRE DESIGNS.

1402 PINE STREET,

*St. Louis, Mo.

C. A. KUEHN,
(Successor to ELLISON & KUEHN),

WHOLESALE

FLORIST,

1122 PINE STREET,

St. Louis, Mo.

A complete line of Wire Designs.

WISCONSIN FLOWER EXCHANGE,
WHOLESALE**CUT FLOWERS,**

468 MILWAUKEE STREET,

MILWAUKEE, WIS.

Ellis & Pollworth,
WHOLESALE
CUT FLOWER GROWERS' AGENTS,

Dealers in Florists' Supplies—Wire Work.

Introducers of the new Scarlet Carnation "LIZZIE
GILBERT." Send for prices.386 Broadway, MILWAUKEE, WIS.
Box 75. Phone 1275.**CUT SMILAX.**15 Cents per String.
SMILAX, from seed flats, 20 cts. per 100; \$1.50
per 100. 1/4 Million Seedlings.
JOSEPH E. BONSALL, 308 Garfield Ave., Salem, O.

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RIST when writing to advertisers.

E. H. HUNT,
WHOLESALE FLORIST
 68 Lake Street, CHICAGO.
WHOLESALE CUT FLOWERS,
 SEEDS, BULBS AND ALL
FLORISTS' SUPPLIES.

Western Agent for the GREAT ANTIPEST.

KENNICOTT BROS. CO.
WHOLESALE CUT FLOWERS,
 and **FLORISTS' SUPPLIES.**
 34 & 36 RANDOLPH STREET,
CHICAGO.

J. B. DEAMUD & CO.
WHOLESALE CUT FLOWERS,
 34 & 36 Randolph Street,
CHICAGO.
 PHONE MAIN 223.
 HEADQUARTERS FOR AMERICAN BEAUTIES.

Reinberg Bros.
WHOLESALE CUT FLOWERS,
 51 WABASH AVENUE,
 Telephone Main 4937. **CHICAGO.**
 Our Roses best them all, in quality.
 Headquarters for fine American Beauties.

NILES CENTER FLORAL CO.
 WHOLESALE GROWERS OF
CUT FLOWERS OF ALL KINDS
 SHIPPING ORDERS will receive our special
 attention. Send us a trial order.
 59 WABASH AVENUE,
 Consignments solicited. **CHICAGO.**

ROGERS PARK FLORAL GO.,
 Wholesale Growers of
CUT FLOWERS,
 41 WABASH AVENUE,
CHICAGO.
 We are prepared to fill your orders with first-class
 flowers. Give us a trial order.

WELCH BROS.,
Wholesale Florists,
 NO. 2 BEACON STREET,
 Near Tremont St., **BOSTON, MASS.**

H. L. SUNDERBRUCH,
Wholesale Florist
 4TH AND WALNUT STREETS,
Cincinnati, O.

Michael A. Hart,
Wholesale Commission Florist.
 ALL STOCK IN FINEST GRADES.
 113 W. 30th St., NEW YORK.
 Telephone Call 1307 38th St.

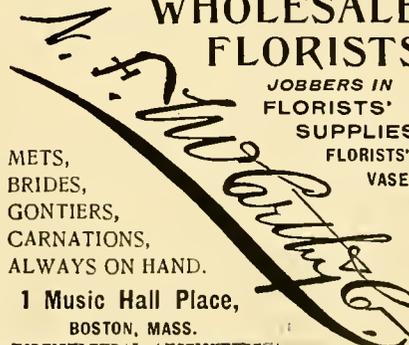
Mention the American Florist when writing to advertisers on this page.

Wholesale Markets.

Cut Flowers.	
NEW YORK, Jan. 8.	
Roses, Bon Silene, Niphetos.....	2.00@3.00
" Perle.....	2.00@3.00
" Mermets, Hoste, Cushn.....	2.00@4.00
" Bride, Watteville, Bridesmaid.....	3.00@6.00
" La France.....	6.00@10.00
" Testout.....	6.00@10.00
" Meteor.....	6.00@10.00
" Beauty.....	50.00@75.00
" Hybrids.....	10.00@25.00
Carnations.....	.75@1.00
" fancy.....	1.50@2.00
Violets.....	.50@1.00
Valley.....	3.00@4.00
Narcissus.....	3.00@4.00
Hyacinths.....	1.00@2.00
Harrill lilies.....	8.00@16.00
Mignonette.....	6.00@25.00
Cattleyas.....	35.00@40.00
Cypripediums.....	10.00@12.00
Smlax.....	12.00@15.00
Lilac, per bunch.....	1.00
BOSTON, Jan. 8.	
Roses, extra selected.....	8.00@10.00
" Mermets, Brides.....	4.00@6.00
" Niphetos, Perle.....	3.00@4.00
" Bon Silene, Gontier.....	1.50@2.00
" Bridesmaid, Testout.....	4.00@6.00
" Meteor.....	4.00@12.00
" Beauty.....	25.00@75.00
" Hybrids.....	15.00@50.00
Carnations.....	1.00@1.50
" fancy.....	2.00@2.50
Valley.....	2.00@4.00
Hyacinths, freesia.....	1.00@2.00
Narcissus.....	4.00@5.00
Harrill, callas.....	10.00@12.00
Violets.....	.75@1.00
Mignonette.....	3.00@6.00
Smlax.....	12.50
PHILADELPHIA, Jan. 8.	
Roses, small.....	3.00@6.00
" large leaves.....	3.00@10.00
" Beauties.....	35.00@50.00
" Brunners.....	60.00@75.00
Carnations.....	2.00@4.00
Smlax.....	12.00@15.00
Asparagus.....	35.00@50.00
Violets, double.....	1.50@2.00
" single, per 100 bunches.....	\$4@8
Valley.....	4.00
Cattleyas.....	40.00@50.00
Cypripediums.....	15.00@20.00
Smlax.....	12.00@15.00
CHICAGO, Jan. 10.	
Roses, Beauty, selected.....	25.00@40.00
" Testout, Bridesmaid.....	5.00@7.00
" Meteor, La France, Albany.....	4.00@6.00
" Bride, Mermets.....	3.00@4.00
" Perle, Niphetos, Gontier.....	2.00@3.00
" Mixed.....	3.00@4.00
Carnations, long common.....	1.50@2.00
" fancy.....	2.00@4.00
" short.....	1.00
Valley.....	3.00@4.00
Ramans.....	3.00@4.00
Violets.....	1.00@1.50
Harrill.....	12.00@18.00
Mignonette.....	1.00@4.00
Orchids, cattleyas.....	40.00
" cypripediums.....	25.00
Smlax.....	12.00@15.00
Freesia.....	3.00@4.00
Narcissus, paper white.....	3.00@4.00
BUFFALO, Jan. 9.	
Roses, Beauties.....	20.00@35.00
" Mermets, Bride.....	25.00@30.00
" Bridesmaid.....	8.00@10.00
" Meteor.....	8.00@10.00
" Perlea, Hoste, Cushn.....	4.00@6.00
Callas, Harrill.....	10.00@12.00
Carnations, long.....	1.50@2.00
" short.....	1.00
" Daybreak.....	2.00@2.50
Valley.....	4.00
Narcissus.....	4.00
Violets.....	1.00@1.25
Tulips.....	4.00

GEORGE A. SUTHERLAND,
 Successor to PECK & SUTHERLAND,
 Successors to WM. J. STEWART.
Cut Flowers and Florists' Supplies
 WHOLESALE.
 67 Bromfield St., BOSTON, MASS.
 New England Agent for the GREAT ANTIPEST.

WHOLESALE FLORISTS
 JOBBERS IN
 FLORISTS'
 SUPPLIES,
 FLORISTS'
 VASES.
 METS,
 BRIDES,
 GONTIERS,
 CARNATIONS,
 ALWAYS ON HAND.
 1 Music Hall Place,
 BOSTON, MASS.
 HORTICULTURAL AUCTIONEERS.



THE LEADING FAVORITES:
American Beauty,
Bridesmaid,
Meteor,
Testout,
 And all other desirable roses, grown especially for first-class trade.

BURNS & RAYNOR,
 Wholesale Florists,
 49 West 28th St., NEW YORK.

THOS. YOUNG, Jr.,
Cut Flowers,
 WHOLESALE,
 43 W. 28th St., NEW YORK.

WALTER F. SHERIDAN,
 WHOLESALE
FLORIST,
 32 West 30th Street, NEW YORK.

Roses Shipped to all points. Price list on application.

Edward C. Horan,
 34 W. 29th Street, NEW YORK,
WHOLESALE • FLORIST.
 Careful Shipping to all parts of the country.
 Price list on application.

JAMES PURDY,
 WHOLESALE DEALER IN
CUT • FLOWERS,
 57 W. 30th St., NEW YORK.

JOHN YOUNG,
FINE ROSES
 WHOLESALE,
 53 West 30th St., NEW YORK.

THEO. ROEHR,
 WHOLESALE
FLORIST,
 111 WEST 30TH STREET,
 NEW YORK CITY.
 Established 1870.

FRANK MILLANG,
WHOLESALE FLORIST
 408 East 34th Street,
 NEW YORK.
 Cut Flower Exchange,
 ESTABLISHED 1884.

The Seed Trade.

AM. SEED TRADE ASSOCIATION.

D. I. BUSHNELL, St. Louis, president; S. E. BRIGGS Toronto, 1st vice-president; A. L. DON, 114 Chambers street, New York, secretary and treasurer.

Am. Seed Trade Association.

The Executive Committee of the American Seed Trade Association held their annual meeting at the Cosmopolitan Hotel, New York City, on Friday, January 4—Pres. Bushnell in the chair. The special occasion was as usual the discussion and arrangement of the programme for the next annual convention. The committee also named Detroit as the location for the coming annual meeting, the time being already fixed under the by-laws of the Association as Tuesday, June 11, 1895.

Pres. D. I. Bushnell of St. Louis presided, and the following members of the Committee and of the Association were present:

- E. B. Clark, Milford, Conn.
- Wm. Meggat, Wethersfield, Conn.
- Jerome B. Rice, Cambridge, N. Y.
- C. P. Braslan, Chicago.
- J. C. McCullough, Cincinnati, O.
- W. H. Grennell, Pierpont Manor, N. Y.
- J. A. Johns, Sioux City, Ia.
- E. V. Hallock, New York.
- C. L. Allen.
- F. D. Wolfrom.

Much regret was felt at the enforced absence of W. Atlee Burpee of Philadelphia, and earnest wishes expressed for his speedy restoration to health.

Sec'y A. L. Don gave his usual painstaking attention to the literary work of the meeting.

THE Iowa Seed Co., of DesMoires, are now in their new store, which is a three-story stone front building 44x133 feet. On December 19 they had an "opening" at which there were over 12,000 visitors. Each caller was presented with a package of sweet peas and a branch of holly. Their warehouse, about five blocks distant, is 66x132, four stories and basement.

ASTER seed is one of the scarce items this season, prices having advanced about 75%.

MR. S. F. LEONARD is making a trip through Texas and the southwest.

Expensive Christmas Bouquet.

"Please send me a nice bouquet of roses for Christmas. Find 2 cent stamp for postage," was an order received by a florist of St. Joseph, Mo. The letter contained a dime pasted to the order. Another order was for one-half dozen M. Niel roses by mail and enclosed 18 cents to cover cost of roses and the postage.

Our correspondent remarks: "Some of our western people are very fond of flowers and will have them at any cost!"

For a National Military Park.

The house committee on military affairs has ordered favorably reported the bill of Gen. Sickles of New York, appropriating \$100,000 for the establishment of a national military park at Gettysburg, Pa.

Blacktown Philosophy.

Some people are not satisfied wif success for themselves. Dey's constantly on happy unless dey kin kill off dey're neighbors besides.



We still make the best Catalogues in America.

FOR THE SEED TRADE
ONION SETS,
SWEET PEAS

AND A GENERAL LINE OF FLOWER SEEDS, GARDEN TOOLS, ETC.

Cox Seed & Plant Co.

SAN FRANCISCO, CAL.,

Seed Growers
AND NURSERYMEN.

Contract Price List on application.

Florists' Seeds

in the choicest strains, and Spring bulbs quoted in our new Trade List for 1895, now ready and mailed free on application.

Address **August Rölker & Sons,**
P. O. Station E, NEW YORK.

When writing mention the AMERICAN FLORIST.

OSCAR KNOPFF & CO.

Seed Growers, Erfurt, Germany.
FLOWER, KITCHEN GARDEN, ETC. SEEDS.
Lily of the Valley Bulbs, best qualities at low prices.
Orders promptly executed.
Medals awarded at World's Columbian Exposition, Chicago, and Mid-Winter Exhibition, San Francisco.
Sole Agents for United States and Canada:
C. B. RICHARD & CO., 61 Broadway, N. Y.
Trade Catalogue for 1895 free on application.

Michel Plant and Bulb Co.,
WHOLESALE FLORISTS.

ST. LOUIS, MO.

Mention American Florist.

WE SELL SEEDS

Florists' Flower Seeds and Sweet Peas a specialty. Highest quality. Special prices

WEEBER & DON,
Seed Merchants and Growers.
114 Chambers Street, NEW YORK.

SOMETHING of INTEREST

TO
Market Gardeners and Truckers
to be had for the asking. Write now for it.
Address **JOHNSON & STOKES, Seedsmen,**
217 & 219 Market St., Philadelphia, Pa.

RED-LEAF LABELS...

Why don't you use them? Too big and ugly? Not true now, for we've fixed up sizes and styles; some in sheets like postage stamps, some on tags, some with "stickum" on. Price cut in half, too. Write for specimens to

J. Horace McFarland Co.,
HARRISBURG, PA.

Vaughan's Seed Store,
New York: CHICAGO:
26 Barclay Street. 146-48 W. Washington St.

FLOWER SEEDS.

NEW CROP AND CHOICEST STRAIN.
SWEET ALYSSUM, oz. 10c. 10c
ASTER, in variety and separate colors 25c
CENTAUREA CANDIDISSIMA 25c
" GYMNOCARPA. 15c
CYCLAMEN, large flowering, white, dark red, light red, mixed 50c
LOBELIA, CRYSTAL PALACE COMPACTA and other varieties 25c
MIGNONETTE, MACHET, oz. 50c. 10c
VERBENA, Mam. mixed and separate colors 25c
SWEET PEAS. Named sorts. (Send for list.)
Send address for our Annual Catalogue and Special Gardeners' List of Vegetable Seeds; ready early in January.

W. W. BARNARD & CO.,
Store, 10 N. Clark St., CHICAGO.
Warehouse and Office, 186 E. Kinzie St.,

CHOICE
FLOWER SEEDS FOR FLORISTS
Our Specialty.

Fresh seed just arrived. New crop Sweet Peas just received.

Price List for florists free on application.

HERRMANN'S SEED STORE,
413 EAST 34TH STREET,
Near North Island Ferry, NEW YORK.

FROM JAPAN.—Bulbs, Seeds, Trees, Palms, Etc.
FROM AUSTRALIA.—Araucarias, Palm Seeds, Etc.
FROM CALIFORNIA.—Bulbs, Seeds, Trees, Etc.

Orders booked up to Dec. 1 for Cycas Revoluta Stems. Send for our new and interesting Catalogue '94-'95.

H. H. BERGER & CO.,
(Established 1878.) SAN FRANCISCO, CAL.
Oldest and most reliable import house.

BULBS.

Hulsebosch Bros.

ENGLEWOOD, N. J.

SELL ALL KINDS CHEAP.

Mention American Florist.

SEEDS

Of all kinds, true to name and fresh.
Jos. F. Dickmann,
1110 N. Third St., and Gravois and Oregon Ave.,
Send for my New Catalogue, FREE. ST. LOUIS, Mo.

EXTRA CHOICE FLOWER SEEDS.

List free on application.
FRED. ROEMER, SEED GROWER,
QUEDLINBURG, GERMANY.

CUT FLOWERS.

We have recently added to our list the product of a majority of the leading establishments of Niles Center, a district long famous for the excellence of its product. We are now better able than ever before to fill orders of a fine grade of stock in an almost unlimited supply. **Supply and Demand** makes the **Price**, and as stock is now quite abundant we can quote very low figures on

Roses Testouts, Bridesmaids, Meteors, Brides, Perles, Mermets, etc., extra fine.

Carnations Daybreak, Scott, Tidal Wave, Lizzie McGowan, Portia, etc., grown by carnation specialists.

Violets Marie Louise and Lady Campbell, the product of our famous Violet Kings.

Bulbous Stock Romans, Freesias, Valley, Narcissus, all fine.

Orchids We are the only house that handles a fine stock of Cattleyas, Cypripediums and all other leading commercial varieties.

Lilium Harrisii Extra fine.

Asparagus plumosus This popular vine is always carried in stock by us.

Notice. About February 1 we shall have in a magnificent crop of Jacqs. and Hybrids.

OUR MOTTO: Honorable and straightforward dealings with our patrons, both retail florists and growers.

T. J. CORBREY, Wholesale Commission Florist,

64 and 66 Wabash Avenue,

CHICAGO.

CYCAS REVOLUTA.

Orders booked now for fresh imported stems, fronds and roots cut off; best long-leaved variety. Delivery Feb. 1st to April. Cultivated Cycas always on hand, rooted and well established

Lil. Auratum, Spec. Rubrum and Album. Etc.
Iris Kæmpferi, in 100 choice varieties.
Japanese Maples, in best varieties.
Camellias, Pæonies, Tree Ferns, Raphis, Etc.
Araucaria excelsa, choice cultivated stock at lowest prices.

For general Japanese stock apply to

F. Gonzalez & Co.,
303 to 312 Wayne St., SAN FRANCISCO, CAL.

Coleus.

As fine a collection as can be found in the country.

ROOTED CUTTINGS GIANT DOUBLE ALYSSUM, &c.
Send for list of prices of Coleus and Carnations.
W. R. SHELMIRE,
AVONDALE, Chester Co., PA.

FOSTITE, A PERFECT REMEDY to Mildew on Roses and Carnation Rust.

Joosten's Magazine Bellows, the best out.
Fostite, 25 lbs. \$2.00. Bellows, \$3.50. Cash with order.
Sold by all dealers and by
C. H. JOOSTEN, 3 Coenties Slip, New York.

AZALEAS. We pay the Express,

And guarantee safe arrival.
Azalea Indian, 12 to 15 in., well set with buds, 75c each.
Azalea mollis. 50c each.
Per 100
Geraniums, dbl. and scl., mixed colors, 3-Inch. . . . \$3.50
Begonia Vernon, 3-Inch. 4.00
" 4-Inch. 6.00
Gonletas, 4-Inch. 6.00
Hydrangea Otakus, 4-Inch. 8.00
" 5-Inch. 12.00
S. WHITTON & SONS, Wholesale Florists,
9-11 Roberts St., UTICA, N. Y.

Sweet Peas.

BLANCHE FERRY	per lb. \$.60
BUTTERFLY	" .60
PRINCESS BEATRICE	" 1.00
ALBA MAGNIFICA	" 1.00
MRS. SANKEY	" 1.50
EMILY HENDERSON	" 1.50
ISA ECKFORD	" .75

GLOXINIA BULBS. Splendid French mixture, per 100, \$7.00.

OUR SPECIAL LIST OF FLOWER AND VEGETABLE SEEDS is now ready and may be had on application.

CHAS. SCHWAKE,
404 East 34th Street, NEW YORK.

SPECIALTIES

ALL IN THE BEST VARIETIES.

ROSES, CARNATIONS, CHRYSANTHEMUMS, VERBENAS.
Rooted Cuttings and Plants. Send for price list.

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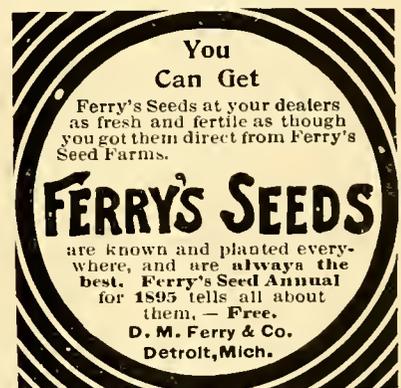
Galgeolaria hybrida.

Strong plants from August sowing, of finest iridescence (own seed growing).
First size plants. per 100, \$5.00
Second size plants. " 2.50

CHAS. ZEPNICK, Bay View, Milwaukee.

2 NEW CANNAS.

CLARA PELEY—For description see advertisement in AMERICAN FLORIST of Dec. 29th.
LOUISA PELEY—Dark leaves, large scarlet flowers. Also indo sed by Mr. Fred Kaast.
I will send 2 Roots (one of each) by mail on receipt of \$1.00. Only 100 roots of each will be sold now.
A. PELEY,
FORT LEE, Bergen Co., N. J.



ROOTED CUTTINGS

Geraniums all Selected Standard Bedders.
Ten varieties, largely semi-double Scarlet Brunt, sold in assortment only, \$12.00 per 1000 all labelled; \$1.50 per 100. Single scarlets at \$1.25 per 100 or \$9.00 per 1000.
Verbena, large collection of fine bright colors, all robust growers, \$1.00 per 100, or \$7.50 per 1000.
Coleus, twenty best bedders, plenty of red and yellow, \$6.00.
Heliotrope, finest blue and white, at \$1.25 per 100.
ALBERT M. HERR, L. B. 496, LANCASTER, PA.

Tuberous Begonias

(Griffin's Strain)
Medal awarded World's Fair.
Finest Strain in the World.
SEED, choicest single & double 50c & \$1 each trade pkt.
BULBS, single varieties, from \$4.00 per 100.
" double " " 10.00 per 100.
Special prices on large quantities. Send for Descriptive Illustrated Catalogue.
OASIS NURSERY CO., Woodbury Station, L. I., N. Y.

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

Rahway, N. J.

Rahway soil takes kindly to the carnation and the carnation takes kindly to Rahway soil. For proof of this take a look at the establishments of Mr. Saling and James Dunn. Mr. Saling will meet you at the door with a genial smile but a mild protest withal, for he is not satisfied with this year's results, which he says do not begin to compare with those of last year. In this his experience tallies with that of growers the world over, for every grower, however skillful and however watchful, is sure to get caught sometime. But, for all that, Bouton d'Or, Daybreak, McGowan and other favorites are looking well and Tidal Wave grows so tall and luxuriant that one would scarcely recognize it. The new Lena Saling is under trial here and is unsurpassed for color, vigor and general habit.

At the other establishment above mentioned will be seen a surprising instance of what a young man can do when he tries. The houses are in charge of Mr. Dunn's son Charlie, a young man of 21 who has personally planned, built, piped and furnished the entire establishment and now has a place which for neatness and general condition cannot be excelled anywhere. Here all the leading carnations may be seen at their best. Even the much condemned Uncle John—well, see how Mr. Dunn grows it and you will understand what its introducers meant when they proclaimed its virtues.

W. B. DuRie is another Rahway florist; that is, when he is not engaged in teaching the young idea how to shoot in Jersey City, where he is principal of one of the schools. Mr. DuRie's special problem at the present time is the violet question. If he can solve it, undying fame is his.

Holyoke, Mass.

Christmas greens were more extensively handled by Holyoke florists this year than ever before. The demand started in a week before Christmas and continued until the close of the holidays. All report a particularly heavy call for roses.

E. H. Howland has begun the construction of a large addition to his already spacious greenhouses. Next season Mr. Howland will make a specialty of roses and the improvements now in course of construction will give him increased facilities for carrying on this special feature.

Florist Shaw assisted in decorating E. C. Taft's handsome residence at a recent reception held there, to which over 500 invitations were issued. The beauty of the floral arrangements were the occasion of many favorable comments during the evening.

The Holyoke Horticultural Society at its last meeting listened to an interesting and ably written paper on "Wild and cultivated flowers," by Mrs. C. W. Ranlet. F. W. J.

THE AMERICAN FLORIST (\$1.00) and Gardening (\$2.00) together to one address for one year for \$2.50. Send orders to American Florist Co.



Gardiner's Celebrated English Mushroom Spawn.
Fresh and Reliable.
\$7 per 100 lbs.
Special price on larger quantities.
John Gardiner & Co., Philadelphia, Pa.

ROSES. ROSES.

E. V. Hallock says: "Your field-grown Roses interested me very much. They are without doubt the finest grown roses in the world." "The finest and cheapest I ever bought,"—*Wm. Falconer.*

HYBRID PERPETUAL, MOSS AND CLIMBING.

In Splendid Assortment of leading varieties. Also Extra fine stock of following will be offered at very low rates while surplus lasts:

- TREE ROSES**—Holland grown, well rooted, good, heavy tops, in fine assortment.
 - AMPELOPSIS VEITCHII**—Extra, 3 to 4 feet.
 - ARISTOLOCHIA SIPHO**—Strong well branched plants with heavy roots.
 - VIBURNUM PLICATUM** (Japan Snowball)—2 feet.
 - CLEMATIS**—Strong, 3 year, large flowered.
 - TUBEROSES**—Pearl and Double Italian, fine bulbs.
 - CALADIUM ESCULENTUM**—9 to 10, 7 to 9 and 5 to 7 inch.
- Low prices on application. State quantities wanted.

OUR USUAL COMPLETE STOCK OF HARDY AND TENDER PLANTS, POT ROSES, SHRUBS, VINES, BULBS, FRUIT AND ORNAMENTAL TREES, GRAPE VINES, SMALL FRUITS, SEEDS, ETC.

41st YEAR. 1000 ACRES. 29 GREENHOUSES.

THE STORRS & HARRISON CO.,

CATALOGUES AND PRICE LIST FREE. **PAINESVILLE, Lake Co., OHIO.**

100,000 VERBENAS. THE CHOICEST VARIETIES IN CULTIVATION.

Fine pot plants, \$2.50 per 100; \$20.00 per 1000. Rooted Cuttings, \$1.00 per 100; \$8.00 per 1000.

NO RUST OR MILDEW.

PACKED LIGHT, AND SATISFACTION GUARANTEED. SEND FOR CIRCULAR.

We are the Largest Growers of Verbenas in the country. Our plants cannot be surpassed.

J. L. DILLON, Bloomsburg, Pa.

FOR SALE.

	Per 100	Per 1000
Cinnamon Vine, 1 year	\$2.00	
Hardy Moonflower	3.50	\$25.00
Wistaria Magnifica, 1 to 2 feet	2.00	18.00
Achillea, The Pearl, open ground roots	3.00	
Coreopsis lanceolata	3.00	
Enulaia Unvittata, 1 year clumps	6.00	
Hibiscus Crimson Eye, 2 years	4.00	
Hyacinthus Candicans, 2 years	1.00	8.00
Hemerocallis, double, 2 years, strong	2.00	12.00
" Flava (Yellow Day Lily), 2 years	4.00	
Iris Kempteri, fine sorts, mixed	3.00	
" German, in 12 fine, named sorts	6.00	
Lily Elegans, large orange red flowers, free flowering	4.00	
Lily, Double Tiger No. 1	3.00	20.00
Montbretias, in 4 fine named kinds	5.00	
Paeonies, 20 choice named kinds, good roots	10.00	
Yucca Filamentosa, 3 years	4.00	
Cannas, fine mixed sorts	3.00	
Cooperia Pedunculata, 2 year seedlings, blooming size	1.00	
Dahlia, mixed sorts, good eyes	3.00	
Gladiolus 50 fine named kinds, Gandaveus type	4.00	
Gladiolus, mixed, light colors	1.50	10.00
Lemolne's Hybrids, in 20 fine named sorts	2.00	12.00
Gladiolus, Lemolne's Hybrids, in 20 fine named sorts, second size, blooming bulbs	1.00	8.00
Gladiolus, Lemolne's Hybrids' fine mixture, 1st size	1.00	8.00
Gladiolus Sandersoni, one of the finest, scarlet	10.00	
Gladiolus Childsii, or Max Lechtlin's Hybrids	10.00	
Gladiolus Dracocephalus	5.00	
Oxalis, summer flowering, 4 distinct colors mixed, fine sorts	.25	2.00
Oxalis, summer flowering, 2 sorts, white and purple		1.00
Richardia Alba Maculata, bulbs near 1 inch diameter	4.00	
Tritoma Uvaria, 1 year clumps	3.00	
Ipomoea Paniculata, Mexican Morning Glory, from pots	2.50	20.00
Agaves, Cereus, Opuntias, Same-viera, Phyllocactus, Stapelia, etc., etc., assorted by us	5.00	40.00

Address **E. Y. TEAS, Manager, IRVINGTON, Marion Co., IND.**
Mention American Florist.

PALMS ARE INCREASING IN FAVOR with the people but they need coaxing to buy. Our prices are "coaxing" so yours can be. Send us \$3 for 173 & 4-in., or \$3 for 3 of assorted varieties such as Lantana, Kentia, Elegans, Excelsa, etc. Shipped safely NOW. Catalogue free. **WILLIAMS & SONS CO., Batavia, Ill.**
Mention American Florist.

Superior forcing stock. Strong field-grown. Budded low on Manetti. Extra heavy tops and roots. Better than imported; can depend on their reaching you in first-class condition. Our exhibit at Atlantic City received Honorable mention.

Some Fine New Roses.

NEW CLIMBING POLYANTHA, CRIMSON RAMBLER, the best Novelty of the season. \$25.00 per 100; \$3.50 per 12.

NEW FORCING TEA, a rival of Bridesmaid, MAMAN COCHET, excellent for forcing as well as bedding. \$10.00 per 100; \$1.50 per 12.

50,000 YOUNG ROSES, strong 2-inch pot plants now ready. \$20.00 per 1000; \$2.50 per 100; our selection. See AM. FLORIST Dec. 1 for price of large Roses and from open ground.

VIOLETS Marie Louise (2-inch pot plants well in Swanley White) bud, \$3.00 per 100.

For anything in the Florists line,

Address **NANZ & NEUNER, LOUISVILLE, KY.**
Mention American Florist.

COLEUS.

... Rooted Cuttings.

10 best Bedding kinds:

By mail, 60c. per 100;

By express 50c. per 100.

CASH WITH ORDER.

S. O. STREBY,

Lock Box 77,

UPPER SANDUSKY, OHIO.

ASTER SEED.

BEST STRAIN ON THE MARKET. Fresh tested seed of Semple's strain of Aster Seed now ready for sale. Long stems, late flowering and delicate colors make it desirable for cut flowers.

Prices quoted to the trade on application. \$1.00 per large trade pkt. Quantity of seed limited.

JAMES SEMPLE, Co.,

Box 2, Bellevue, Allegheny Co., Pa.

FLORISTS' FLOWER SEEDS

FOR EARLY SOWING.

An extract from our 1895 Flower Seed List.

	Trade Pkt.	oz.	lb.		Trade Pkt.	oz.	lb.
Agatheæ Colestis , Blue Daisy, a splendid pot plant, blooms summer and winter.....	.15			Mimulus Moschatus , Musk Plant.....	.10		
Ampelopsis Vetchii.....	.10	\$.20	\$2.00	Moscabatus Compactus , dwarf.....	.25		
Alyssum , sweet.....	.05	.20		Mignonette Machet , select stock.....	.10	.50	
Begonia , Vernon, a splendid bedding sort, ever-bloomer.....	.10			Gabriele , extra thick spike.....	.10		
Browallia , mixed.....	.10	.60		Glant Red , new.....	.15		
Caudytnft , White Rocket.....	.05	.10	.60	Musa roseacea , 100 seeds, 75c.....		.15	1.20
Empressa.....	.10	.30		Nasturtium , fall, mixed.....	.05	.15	1.50
Cauna , Crozy's Hybrids, best mixed.....	.10	.25	2.50	Oxalis Tropæoloides.....	.25		
Carnation , Riviera Market, a splendid sort for winter blooming, comes true from seed and blooms as early as the Margaret carnation.....	.25			Pansy , good mixed.....	.60		
Mme. Guillaud , double yellow.....	.60			Chicago Parks mixture	1.00		
Margaret.....	.25			Glant mixture , ¼ oz., \$1.00.....	.25		
Centaurea candidissima , Dusty Miller.....	.30	1.25		Trimardeau.....	.10	2.00	
Coleus , mammoth-leaved, a splendid mixture.....	.25			Vaughan's International Mixture , ¼ oz., \$1.50.....	.50		
Cyclamen , Glant mixed, ¼ oz., \$2.00.....	.50			For other colors, etc., see our Book for Florists.....			
Cyperus Alternifolius.....	.20			Passiflora alba.....	.25		
Daisy , Longfellow, double pink.....	.25			Petunia Hybrida , single, extra fine mixed.....	.10	.60	
Snowball , double white.....	.25			Inimitable , blotched and striped.....	.10	.75	
Vaughan's Mammoth , best mixture of largest flowers.....	.25			Dwarf Inimitable , for pots.....	.25		
Vaughan's Mammoth White , Double, extra choice mixed.....	.50			Large flowering , extra choice mixed.....	.25		
Dracena Indivisa Lineata.....	.10	.25	2.50	Superbissima , finest strain.....	.25		
Indivisa.....	.25	2.60		Fringed , finest mixed.....	.50		
Echeveria Deametlana , new, 100 seeds, \$1.75.....				Double large flower ing , best.....	1.00		
Euphorbia Heterophylla.....	.25			Double large flowering , fringed, the best strain we know of.....	1.00		
Geranium , Apple-Scented, 1000 seeds, \$1.25.....	.25			Double fringed white	1.00		
Kenilworth Ivy (Linaria Cymbalaria).....	.25			Pyrethrum , Golden Feather.....	.10	.50	
Lobelia Speciosa , for hanging basket.....	.70	1.00		Fern-leaved.....	.15	1.00	
Cryatal Palace compacta.....	.25	3.00		Salvia splendens , Flowering Sage.....	.25	1.50	
White Gem , compact.....	.25			Splendens , Clara Bedman, Bonfire.....	.25		
Emperor William , dwarf.....	.20			Stocks , large flowering dwarf German, ten weeks, white, pink, crimson, light blue, dark blue, canary yellow, each.....	.25		
Matricaria capensis , fl. pl., double white Feverfew.....	.10	.40		One pkt. of the above 6 for \$1.20.....			
Maurandia , mixed.....	.25			Snowflake dbl. white for forcing.....	.25		
				Princess May , new, yellow, the earliest of all.....	.25		
				Parisian Forcing , a new and very early sort, makes fine pot plants, white, pink and red.....	.25		
				Dwarf Queen , blood-red, a new sort, excellent for pots.....	.25		

NEW YORK: 26 Barclay Street. **VAUGHAN'S SEED STORE**, CHICAGO: 146-8 W. Washington Street.
GREENHOUSES, WESTERN SPRINGS, ILL.

ROOTED CUTTINGS
CHRYSANTHEMUMS
All the best new market sorts, 60c per doz.; \$4 per 100. Best market sorts of previous years, 35c per doz.; \$2 per 100. Ready for delivery Feb. 1st. Also CYCLAMEN persicum giganteum, 3½-4a, \$6.00 per 100. GENTIANAS, 5-inch pots, fine plants, \$12 to \$15 per 100. SMILAX, 2½-inch pots, \$2.00 per 100; \$15.00 per 1000.
Address **J. G. BURROW**, Fishkill, N. Y.

WOOD LABELS, of Superior Quality, for NURSEYMEN and FLORISTS.
Best pattern of 2½-inch, printed and wired. "Highly commended" at Convention American Florists at Atlantic City.
ADDRESS **BENJ. CHASE**, Derry, N. H. Mention American Florist

Chrysanthemum Etoile d'Or, (single yellow daisy), plants from 3-in. pots, now ready. Stock limited.
\$3.00 per dozen; \$20.00 per 100. 50 at 100 rates.
S. EDWARDS & SON, 478 Irving Ave., BRIDGETON, N. J.
The cut blooms are very desirable, and bring a good price.
Mention American Florist.

Zirngiebel's Seeds for Florists
Early and Late White Aster.
Giant Market and Fancy Pansy.
Early Dwarf Double White Stock.
TRADE PACKETS \$1.00 EACH.
D. ZIRNGIEBEL, Needham, Mass.

Grevillea Robusta.
Strong 2½-inch pots, 50c. per dozen; \$3.00 per hundred.
NATHAN SMITH & SON, ADRIAN, MICH.

Siebrecht & Wadley, ROSE HILL NURSERIES, NEW ROCHELLE, N. Y.
Palms, ORCHIDS, Roses, and New Plants.
FRESH DRACAENA CANES NOW READY. Mention American Florist.

ORCHIDS OUR SPECIALTY.
The Best and Largest Stock in the World. New & Rare Foliage & Flowering Plants.
A grand selection for Stove, Greenhouse and Conservatory.
SANDER, St. Albans, England.

PÆONY BULBS. Large Clumps, \$40 per 100.
Will divide into 3 to 5 parts. Every florist should have 100. They pay. Write for 1000 price.
BRANT & NOE, FOREST GLEN, ILL.

TRY DREER'S GARDEN SEEDS, Plants, Bulbs & Requisites. They are the best at the lowest prices. Trade List issued quarterly, mailed free to the trade only.
HENRY A. DREER, Philadelphia, Pa.
Mention American Florist.

PANSIES.
The Jennings Strain of Large Flowering and Fancy Pansies, field-grown, nice stocky little plants—good frame size.
THE FINEST STRAIN is what every florist wants. I think you will find mine as good as the best. Stock carried in cold frames, and orders filled any time. 100 by mail 60 cts; 1000 by express \$5 00; 5000 \$20. Finest mixed seed of above Pansies, pkt., 2500 seeds, \$1; per oz. \$5. Yellow same price. Cash with order.
E. B. JENNINGS, Wholesale Pansy Grower, Lock Box 254, SOUTHPORT, CONN.

Pansy Plants. EXTRA FINE STRAIN.
75 cents per hundred; \$5.00 per thousand.
ESSEX HEIGHTS FLORAL CO., BELLEVILLE, N. J.

ROOTED CUTTINGS. Good Ones.
Verbenas, 23 varieties..... 80c. per 100; \$7.00 per 1000
Heliotrope, 6 varieties..... per doz. 20c
New Glant Alyssum and Lopezita..... " 20c
Cuphea Lavis and Clear Plant..... " 20c
Salvias and Marguerite..... " 20c
Mexican Primroses and Ageratum..... " 20c
Coleus..... per 100 75c " 12c
Postage 1c. per dozen. Cash with the order.
I. L. Pillsbury, Galesburg, Ill

Choice Florist Seeds.
Pansy, Calceolaria, Primula, Cineraria, choicest strains, at 25 and 50 cts. per trade packet. Special quotation on BULBS.
W. A. MANDA, The Universal Horticultural Establishment, SOUTH ORANGE, N. J.

E. G. HILL & CO., Wholesale Florists
RICHMOND, INDIANA.

Kansas City, Mo.

Trade at Christmas was never so good as it was this year. Prices way ahead of previous years. Am. Beauties \$14 a dozen, Brides and Bridesmaids \$3.50, Perles, Woottons \$3, Romans \$1, valley \$1.50, narcissus same, carnations \$1 and \$1.25; supply about equal to demand, and of very good quality. All the orchid blooms in sight sold readily at \$1.50 to \$2 each (Cattleyas) as did azaleas at \$1.50 each. There was also a good demand for cyclamens, primroses, palms and ferns.

Decorating and floral work has simply been immense during the month of December. All have done well, and many report it the best month in their history.

The next meeting of our club will be at R. S. Brown & Son's January 11, at which time we will be able to get from the boys a better report of business. Quite a few have expressed a desire to become honorary members of our club, and are good patrons of floriculture. We have made no mistake in forming a Florist Club.

S. M.

Dutchess County (N. Y.) Horticultural Society.

The widely scattered gardeners and florists of Dutchess county, N. Y., have long felt the need of an organized society, with a center where they could meet and become better acquainted with each other, discuss horticultural matters, promote exhibitions and otherwise advance the interests of horticulture.

The first step towards attaining this object was taken at Poughkeepsie on January 2 when a number of gardeners and florists met and resolved to organize a society which shall be called the Dutchess County Horticultural Society.

The following officers were elected: President, Mr. James Blair, gardener to Ogden Mills Esq., Staatsburg, N. Y.; vice-president, Mr. M. J. Lynch, florist, Poughkeepsie, N. Y.; treasurer, Mr. James Sloan, florist, Poughkeepsie, N. Y.; secretary, Mr. Wallace Gomersall, gardener to Winthrop Sargent Esq., Fishkill-on-Hudson, N. Y.

The next meeting of the society will be held at the Poughkeepsie Court House February 6, 1895, at 1:30 p. m., when all gardeners and florists who wish to become members of the society are cordially invited to be present.

W. GOMERSALL, Secretary.

To Make Room.

We have at least 80,000 Geraniums, all the leading varieties, grown in flats, ready for 3-inch pots, at \$1.75 per 100, \$15.00 per 1000. In all cases cash must accompany the order. Selection of sorts to remain with us.

J. E. FELTHOUSEN,
370 Van Vranken Ave., SCHENECTADY, N. Y.

CHOICE SEEDS.

PETUNIA GRAND. FIM. FL. PL.

The largest and finest strain of double fringed and mottled Petunias to be had. All who see these Petunias say they are finest they ever saw. Extra.

VERBENA GRANDIFLORA.

This improved strain of Mammoth Verbena gives perfect satisfaction to my many customers, and is justly claimed the finest in cultivation; florets an inch in diameter, in extra large trusses, of finest colors.

CYCLAMEN GIGANTEUM.

A magnificent collection of the finest plant flowering varieties; largest flowers and best colors.

Each, per trade pkt. 25c; 3 pkts. 60c; 6 pkts. \$1.00. I will here thank my florist friends for the many letters of commendation received during the past year.

JOHN F. RUPP, Shiremanstown, Pa.

NEW VIOLET "THE CALIFORNIA"

Pitcher & Manda, Eastern Agents.

Flowers cover a silver dollar; stems 12 inches long; color pure violet purple. "THE CALIFORNIA" has been in course of propagation for three years and is now offered to the trade as a TRIED STERLING NOVELTY. The prices have been placed so low that the plants can be bought in large quantities to supply the cut flower trade. "THE CALIFORNIA" will undoubtedly be the leading Violet next season. Last year a few thousand flowers were offered in San Francisco, and they sold for ten times the price of Marie Louise and Russian. This season tens of thousands of "THE CALIFORNIA" Violet have been placed on the market, and are being sold at four times the price of the above varieties.

DESCRIPTION.

Plant vigorous and absolutely free from disease; flowers single, immense in size; color violet purple (does not fade); fragrance intense; flowers borne on strong stems 10 to 14 inches in length. Last season several hundred flowers were picked from a single plant. Delivery of plants will begin in February or March, 1895.

PRICE.

AS THE EASTERN AGENTS FOR THIS NEW VIOLET we are enabled to offer the plants at the same price as charged by the introducer in California, thus saving our patrons much expense and risk. We quote for quantities less than 100, 15c each; 100 to 500, 10c each; 500 to 1000, 7c each.

We have investigated at a considerable expense all that has been said regarding its merits, and have found the above to be true in every particular. One local authority states that "The New violet is magnificent. Some stems are 16 inches long, the flowers very large."

PITCHER & MANDA,

(INCORPORATED)

Short Hills, N. J.

BUY VIOLET "LADY HUME CAMPBELL"

From the original stock. Never had disease. Orders booked now for Spring delivery. Rooted Cuttings, \$2.00 per 100. Rooted Cuttings, extra selected, \$3.00 per 100.

CARNATIONS,

Germania, splendid yellow; Souv. de la Malmaison, flesh. \$2.00 per dozen.

H. HUEBNER, Groton, Mass.

Some New and Rare Plants

CANNA KOENIGIN CHARLOTTE—Most striking Novelty; strong established 4-inch pot plants, \$10 per 12; \$1.00 each.

CAREX JAPONICA MARGINATA—Neatest of all ornamental grasses for ferneries or pot culture, \$3.50 per 12; 35c. each.

CYPERUS ALTERNIFOLIUS GRACILIS—The very thing for fish globes, fern cases, etc. Don't grow over 18 inches; neat and compact. \$3.50 per 12; 35c. each.

ERYTHRINA CORALLODENDRON—Free and easy grower and blossomer, of most gorgeous color; very ornamental bedding variety. \$3.00 per 12; 30c. each.

PELLIONIA PUNCTATA—A fine creeper for baskets, jardinieres, etc. \$1.50 per 12; 10c. each.

LYCOPODIUM CAESIUM ARBOREUM—Most ornamental stove house moss. 4-inch pot plants, \$2.00 per 12; 20c. each.

DRACAENA DRACO—The true Dragon Tree. From 3-inch pots, \$1 per 12; \$6 per 100; 15c. each.

AGAPANTHUS UMBELLATUS SUPERBUS—The large flowering blue African lily, from 3-inch pots, strong, \$6.00 per 100; \$1.00 per 12.

ASPARAGUS SPRENGERII—\$20.00 per 100; \$3.00 per 12. Dark green, glossy foliage, very robust, and quite distinct from all other sorts.

Address NANZ & NEUNER, Louisville, Ky.

CHRYSANTHEMUMS.

ROOTED CUTTINGS.

GOLDEN WEDDING, NIVEUS, QUEEN, } \$4.00 per 100 by mail, postpaid.

Absolutely Free from Rust or Disease.

PRICES OF '94 NOVELTIES ON APPLICATION.

The HARRISON H. GIVEN FLORIST CO.

E. A. WOOD, Manager. DENVER, COLO. Address Mail to 620 Charles Bldg.

Primula Plants

Surplus stock in 2 and 2½-inch pots, somewhat drawn, cheap at \$2.00 per 100, to close out.

Linum Trigynum.

2½-inch, strong, dozen \$1.50; per 100 \$10.00.

VAUGHAN'S GREENHOUSES,

P. O. Box 688. CHICAGO.

MAIL LOCK THE DOOR BEFORE THE HORSE IS STOLEN DO IT NOW.

JOHN G. ESLER, Sec'y, F. H. A., Saddle River, N. J.

PALMS CHRYSANTHEMUMS CARNATIONS ORCHIDS & ROSES

Prices on application.

EDWIN LONSDALE, WYNDMOOR, near Chestnut Hill, PHILA., PA.

Mention American Florist.

WHAT IS THOUGHT IN EUROPE

OF THE
New Chrysanthemum "PHILADELPHIA."

THE CHRYSANTHEMUM EXHIBITION.

To the Editor of the STANDARD:

SIR—At the last moment I have received from Philadelphia six blooms of a magnificent new Seedling, incurved Japanese Chrysanthemum, named "Philadelphia," pronounced by the ablest experts to be the finest variety yet seen from America. They will be on view in the north gallery of the Aquarium until the close of the Chrysanthemum Exhibition. I am, sir, your obedient servant,

Ranelagh Road, Ealing, London, W. Nov. 7th.

R. BALLANTINE, Chairman National Chrysanthemum Society.

From the GARDENING WORLD, Nov. 17th, 1894.
CHRYSANTHEMUM "PHILADELPHIA."

On Wednesday evening of last week, unfortunately some hours after the Floral Committee of the N. C. S. had concluded its labors, a box of chrysanthemum blooms arrived at the Royal Aquarium, which created a lively amount of interest among the growers present. The box, which had been sent by Mr. Hugh Graham, 1204 Chestnut St., Philadelphia, U. S. A., containing six blooms of seedling incurved Japanese chrysanthemum, "Philadelphia," and which, notwithstanding their long ten days' journey, arrived in a remarkably fresh condition. Beyond a few bruises on the petals, the result of rubbing, they were as fresh as if cut but the day before, and Mr. Graham was awarded a silver gilt medal of the Society for his Exhibit. It is a grand-looking flower, six inches across, and in general terms may be described as a White Robert Owen; but unfortunately it is not a pure white, the tips of the petals being shaded with pale lemon or cream color. It is said to be a cross between Margaret Graham (Ruth) and Mrs. Craige-Lippincott.

From the JOURNAL OF HORTICULTURE, Nov. 15th, 1894.
A NEW AMERICAN CHRYSANTHEMUM, "PHILADELPHIA."

It is an unusual thing to see blooms at an exhibition of chrysanthemums grown 3,000 miles away, yet we think that Messrs. Cannell & Sons once staged some American blooms of Louis Boehmer at an Aquarium show just prior to its distribution in England. At any rate to Mr. Hugh Graham, of Philadelphia, belongs the credit of repeating the experiment with a marvellously fine Japanese incurved raised by him. The flower, which he has named "Philadelphia," is a solid, massive looking, globular flower, as round as a ball, very large in size, and has deep, incurved grooved florets of good breadth, which are ribbed or veined on the outer face. The tips of the florets are rather sharply pointed, and the color is a clear white, slightly tinted primrose at the tips. "Philadelphia" has already received a first-class certificate from the American National Chrysanthemum Society, and the flower arriving too late for the Floral Committee of the English N. C. S. to see, it was awarded a silver gilt medal by the Arbitration Committee. We congratulate Mr. Hugh Graham on being the first American grower to obtain this distinction.

From the HORTICULTURAL ADVERTISER, Nov. 14, 1894.

What would have been the attraction of the day unfortunately arrived after the meeting was over. This was a consignment of blooms from the United States,

through Messrs. B. S. Williams & Son, of Holloway. The flowers were of one kind, a magnificent white incurved Japanese named "Philadelphia." The flowers had borne the journey wonderfully well and were fine examples. Florets wonderfully stout and broad, forming solid blooms six inches in diameter, and as much in depth, in fact almost perfectly spherical. The florets were said to be tipped with yellow, but this was not apparent in the gas light by which we saw them.

From GARDEN WORK, Nov. 21st, 1894.

A FAMOUS CHRYSANTHEMUM.

At the exhibition of the National Chrysanthemum Society, held at the Royal Aquarium, Westminster, on the 6th, 7th and 8th inst., Mr. Hugh Graham, of Philadelphia, U. S. A., exhibited a marvellously fine Japanese incurved raised by him. The flower, which he has named "Philadelphia," is a solid, massive looking globular flower, as round as a ball, very large in size, and has deep, incurved grooved florets of good breadth, which are ribbed or veined on the outer face. The tips of the florets are rather sharply pointed, and the color is a clear white, slightly tinted primrose at the tips. "Philadelphia" has already received a first-class Certificate from the American National Chrysanthemum Society, and a Silver Gilt Medal was awarded Mr. Graham for the flower by the Arbitration Committee of the N. C. S.

From the GARDEN, Nov. 17th, 1894.

A FINE AMERICAN CHRYSANTHEMUM.

On the second day of the N. C. S. exhibition, blooms of a variety called "Philadelphia" were received from an American grower, Mr. Hugh Graham. This variety, presenting our climate does not make any difference, is destined to occupy a prominent place in our collections. After its voyage across the Atlantic "Philadelphia" certainly seemed none the worse, and it may be described as a very large globular flower with grooved, pointed florets of great width. The reverse is ribbed and the color white, with a faint primrose marking at the tips. It has already been awarded a first-class Certificate by the American Chrysanthemum Society, and the English N. C. S. thought so highly of it that they awarded the raiser their Silver Gilt Medal. Mr. Hugh Graham may be congratulated on his enterprise in dispatching blooms for exhibition such a distance; and he is certainly the first American who has been awarded such a distinction.

[COPY OF A CIRCULAR DISTRIBUTED IN ENGLAND.]

Magnificent New American Chrysanthemum
"PHILADELPHIA."

This Peerless Treasure is Absolutely Without a Rival.

MR. HUGH GRAHAM, of Philadelphia, one of the most distinguished and enthusiastic florists in the United States, the raiser of this superb incurved Japanese, despatched by special messenger six blooms, which unfortunately only reached us on the evening of the second day of the great exhibition, at the Royal Aquarium, November 7th, 1894; we had them immediately staged and brought under the notice of the Chairman and Committee of the National Chrysanthemum Society, and they unanimously awarded a Silver Gilt Medal. These blooms having been cut and packed for ten days, prove it to be one of the most lasting flowers yet raised, invaluable both to exhibitors and growers for market on account of the enormous size of its flowers.

The flowers were of the finest globular form, six inches in diameter, and of the most delicate creamy white, the tips tinged with sulphur yellow. The petals are purely incurved, with slight inflections to the right and left as in the Japanese.

It has created the greatest sensation and received the highest awards wherever shown.

We are pleased to state the entire distribution in Europe of this sterling novelty has been placed in our hands.

Plants will be sent out simultaneously by Mr. Graham for America and by us in London, the probable date of distribution being March 1st, 1895.

Price of plants, 7s. 6d. each; six for 42s.

YOUR ORDERS SHOULD BE GIVEN EARLY TO ENSURE THE PLANTS BEING SENT OUT AT THAT DATE.

B. S. WILLIAMS & SON,

Victoria and Paradise Nurseries,

UPPER HOLLOWAY, LONDON, N.

Indianapolis.

Christmas trade was better than expected. There has been, however, some complaints regarding the "staying qualities" of stock shipped in. The question is asked: "When flowers are received in such condition that they must go at once to the dump-pile should the dealer be obliged to pay for them?"

Holly and green were largely used but not quite so freely as last year.

The regular monthly meeting of the Indianapolis Florists' Club was held at the club rooms, January 2. Very little business was transacted. After reading the minutes, the newly elected officers were installed. A resolution of sympathy was tendered to Henry Rieinan, our popular president, who recently lost a child; he himself has been sick but is now all right again. After business was transacted, the social part of the meeting began. Several ladies and young folks were present and a splendid lunch was spread by them. Several piano solos by our Prof. Walker, songs by invited guests and a very creditable sleight of hand performance, with dancing afterwards, kept the company together until a late hour. Owing to its being the evening after New Year's and a very busy week, many members did not attend, being completely tired out.

The 9th annual election and meeting of the Society of Indiana Florists will be held in this city Tuesday, February 5.

Mr. John Gird of Fremont, Nebraska, was in the city several days ago on a sad mission, bringing his wife's remains to be buried at beautiful Crown Hill Cemetery.

A great deal of funeral work lately has kept white flowers down to a low notch. Violets are very scarce in this neighborhood, the dry summer having killed some and the violet disease many more.

During a recent visit to Mr. Dornier's place at La Fayette, Ind., we found many things of interest. The place has changed much in the last two years, an entire new block of greenhouses, airy, well arranged and of the newest pattern, has been erected, two beautiful new dwelling houses, an office and packing building and a naturally cold cellar for keeping cut blooms. But the most noticeable feature is the arrangement of the grounds, laid out in proper shape, inviting to everyone entering. This is something that every florist should take notice of if he has any space at all; to lay out and keep it in good condition, adds beauty to the establishment and finds imitation. W. B.

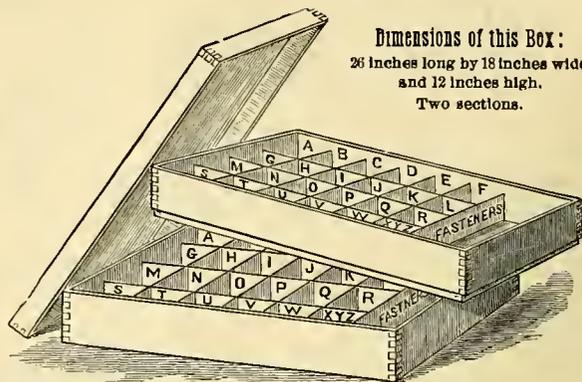
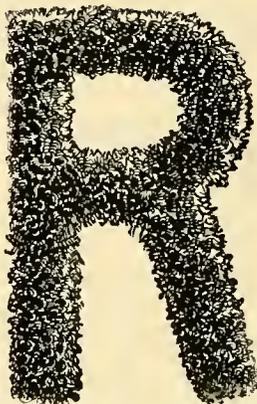
The "Night Watchman."

I had an opportunity during the Christmas holidays to test the "Night Watchman" invented by Mr. A. C. Rott and which was noticed in your issue of November 3. It is a valuable discovery, not only of use in the greenhouse, to tell when it is too cold or too hot, but it is available in a bed room or sitting room to let your janitor know what the temperature is, in any room of the house and "to govern himself accordingly."

Springfield, Ill. CHAS. E. HAY.

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26 inches long by 18 inches wide
and 12 inches high.
Two sections.

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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OUR NEW SCRIPT LETTER, \$4.00 per 100.

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5 to 7 feet.....\$8.00 per 100
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CHARLES X LILAC, grown less than two feet high, from three to five branches, all well budded, at \$25.00 per hundred.
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FOR FLORISTS.
Largest and finest stock in the United States. Write for prices to
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LAUREL WREATHING, fine quality, hand-made \$3.50 per 100 yds. Also WILSON EARLY BLACKBERRY PLANTS, \$3.00 per 1000.
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(1000 will fill four cases.)
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(Of the latter 3 varieties 1000 will fill 5 or 6 cases.)

The best time for shipment are the months of January, March, June and August. Small lots, less than four Cases, February and March.

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CONDITIONS. All plants are packed in the best method with the greatest care and delivered to steamer in good order at buyer's risk and expense from port of shipment. In no case will the shipper be responsible for condition of plants upon arrival. All consignments must be paid for on arrival to **Messrs. Theile & Quack, No. 7 Bridge Street, New York**, who will forward to purchaser.

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1/4, 5-16, 3/8, 1/2, 5/8, 3/4, and 7/8-inch square, cut to lengths wanted.

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A foot in length by simply using a sharp saw on a bundle of our best.

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A GENERAL ASSORTMENT OF FRUIT TREE STOCKS, SUCH AS APPLE, PEAR, MANALED, CHERRY, MYROBOLAN, PLUM, MAIZARD, SMALL TREES, ANGERS QUINCE, FOREST ORNAMENTAL SHRUBS, ETC.
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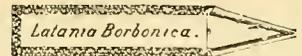
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The Christmas trade was exceptionally good. The weather was propitious and remained so. No disappointing storms or cold waves came the last minute to remind us of the bouquet that we didn't send the weather clerk. Buyers came early and late. Every store was filled and while a good deal of "shopping" was done, prices were not badly cut. In a few instances some cuts were made, but as the growers held their prices firm the retail stores were compelled to do likewise.

Roses as usual had the call and retailed at \$2 to \$3 per dozen. The finest brought \$4, while Beauties of inferior quality sold at \$12. Carnations were listed at 75 cents to \$1, Romans, valley and narcissus \$1, violets \$1 per bunch, "mums" \$1.50 to \$2. The supply was about equal to the demand, the most noticeable shortage being in Beauties and carnations.

John Nelson brought in violets as large as a half dollar.

Christmas greens were eagerly sought after and everything in the line of holly, wreathing, etc. was disposed of.

A very noticeable feature of the trade was the sale of plants. Everything in bloom was eagerly snapped up.

From reports received from our sister city—Minneapolis—trade there was exceptionally good both Christmas and New Years. The "Glass Block" man did not handle flowers during the holidays.

New Year's trade in this city was first-class. There was a good demand for all cut flowers, while several large decorations helped to swell the sales for the old year, and place it on record as a fairly good year for florists.

Growers, be hopeful—the holiday season just passed has once more proven that first-class stock will always command superior prices. Retailers, take heart. The trade of the past fortnight is but another evidence of the growing popularity of your goods and augurs well for the future.

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WM. SILMAN & SON.

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The finest CLEAR CYPRESS used.

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Send for price list and samples and we know you will give us an order.

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We will furnish you with prices on application, and will fill all orders promptly. Our Pots are excelled by none in the market.

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We Manufacture all kinds of Flower Pots, etc. Making a Specialty of

Florist Standard Pots

Send for price list and samples (which will be sent free), and we know you will give us your order.

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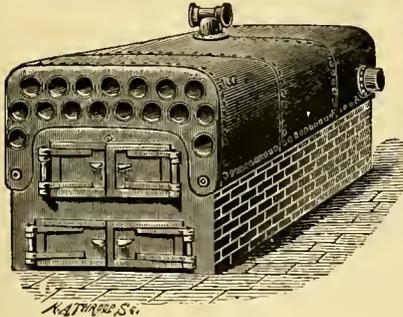
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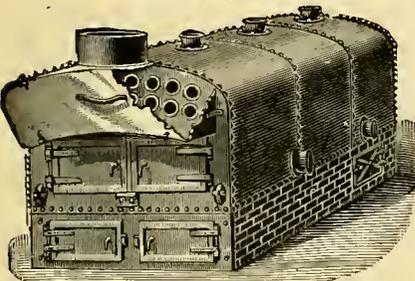


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BEST IN USE
FOR GREENHOUSES, LARGE and SMALL.
All Steel. No Coils or Cast Iron Sections.
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GLASS

which is absolutely perfect for modern greenhouse construction.
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Send for Estimates. Satisfaction Guaranteed
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THE GREAT ANTIPEST.

For particulars, see next week.
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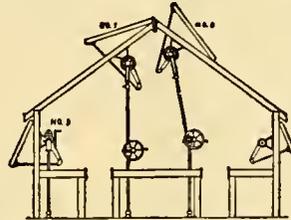
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The florist's friend in working and prices.



No repairs for 5 years. no chains to break as is the result with others.

Opens Sash uniform in 100 foot houses A new device.

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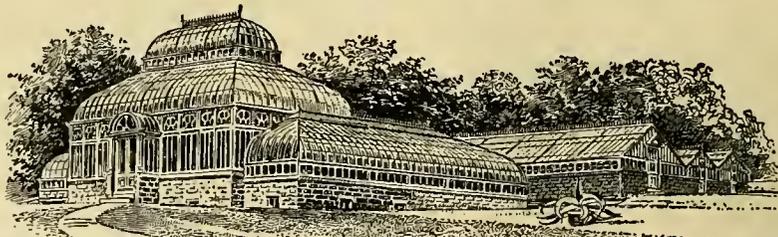
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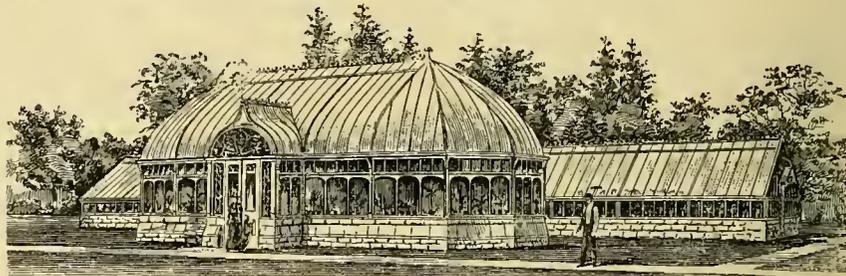
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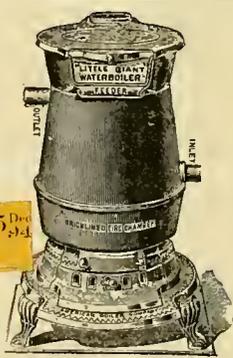
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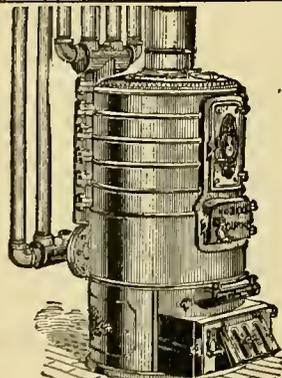
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THE AMERICAN FLORIST



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Vol. X. CHICAGO AND NEW YORK, JANUARY 19, 1895. No. 346

THE AMERICAN FLORIST

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SOCIETY OF AMERICAN FLORISTS.

EDWIN LONSDALE, Chestnut Hill, Philadelphia, president; E. C. REINEMAN, Allegheny City, Pa., vice-president; WM. J. STEWART, Boston, secretary; H. B. BEATTY, Oil City, Pa., treasurer. The 11th annual meeting will be held at Pittsburg, Pa., August, 1895.

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WAYSIDE IRELAND is the title of a delightful little booklet (it would be unfair to call it a pamphlet) by Mr. W. Baylor Hartland of daffodil fame. He describes a trip from Cork through Connemara and Achill Island, describing scenery, agriculture and peasantry. Mr. Hartland writes shrewdly of agricultural Ireland, and no one can fail to admire his buoyant, light-hearted style of writing; it is a most interesting little book.

MR. H. L. SUNDERBRUCH of Cincinnati prints the S. A. F. telegraph code on the back of his cut flower price list. This is an excellent idea as it brings the code under the eye of the buyer at the right time.



The Work of the C. S. of A.

ED. AM. FLORIST:—Complaint comes that the judging under the auspices of the Chrysanthemum Society of America has been too severe, but, if we think of it, it is only what we should expect under the dogma of the trade. In spite of recommendations the majority of the judges was selected from the ranks of the trade, and in consequence nearly all the judging was done in their interests. Certainly, there appeared a desire everywhere to give preference to more refined flowers, but size and a stiff stem were the prime requisites. There must be a limit to size, and while we all glory in an immense bloom the general public includes a multitudinous variety of tastes. Already what is coming is foreshadowed by the fact that large blooms are grown at a loss, and those shrewd florists who put financial considerations first are growing medium sized flowers in less space, with better returns. Another indication of the future is that small specimen plants, in 6-inch pots, are easily handled, require less care, occupy very little more space, and bring more money than the largest specimen blooms. These considerations must weigh with those who grow flowers for profit.

For the last ten years the florists of the United States have been making a name for themselves among English growers. There have been introduced into European gardens many varieties of sterling merit. Up to now it has appeared that Americans must lead. Up to now we have profited by what has been their disadvantage. Raising seedlings in England from English hybridized seed has been looked upon almost as an impossibility, but now it seems the vigorous constitution of American raised seedlings has become the medium, making it possible to hybridize and save seed there. Special condition with regard to structure of houses suitable for this purpose, and caring for the plants during the ripening process, have been necessary, but it is a remarkable achievement, and is becoming a matter of some concern to the American florist. Mr. Shea, before the Royal Hort. Society, stated that he had collected a quarter of a pint of good seed in a structure thirty feet by twelve. Our misfortune is that it has been too easy. There the difficulties to be overcome have added

value to the results. With the care and methodical characteristics of the Briton the future of the American florist in this field is in danger. Now, here is the difference. We have been going along one line only, as above outlined. They have been bringing all the classes along together. I think most growers and raisers will agree the limit has been reached with us. Now, we should turn, and there is no doubt the public will be with us and bring up the other lines. In most of the exhibitions boards have been discarded and, I must confess, few were, at first, more pleased than myself. But they have gone altogether, and now it is questionable whether we were wise in discarding them. The result has been what few of us foresaw—the stiff stem criterion. This sweeping elimination of the boards has transformed our exhibitions.

I should be glad of a further expression of opinion.
T. D. HATFIELD.
Wellesley, Mass.

Little did we suppose when we wrote our last article on chrysanthemum culture last November, and advised all intending exhibitors to keep their blooms at home rather than show them before judges whom they deemed incompetent, that we should so soon see an article like the foregoing. There has always been some little grumbling by disappointed exhibitors, of course, but until quite recently very little has appeared in the press in this country.

Mr. Hatfield, in commencing his article, says that "the judgment has been too severe." Probably no better commendation of the work that the gentlemen composing the several committees of the Chrysanthemum Society of America have done, coming, as it does, from one who exhibited seedlings, could be given to the public and to those who are dependent, to a great degree, upon the work of the different judges of the country to know in what varieties it will be for their interest to invest their hard earned money. The society is not for any one section of the country or for any one class of the trade. The private gardeners of the east, backed as they often are by unlimited funds, can afford every year to buy one plant of a number of inferior varieties and throw them away, but the majority of the buyers of the country are in the commercial line, and when they invest in a new variety are not satisfied with the trial of one plant, but buy of an A1 variety ten, fifty or one hundred plants. And the most critical judgment is what they deserve, believing that it is far better to advise the further trial of ten varieties than to give the highest award to one of questionable merit.

Continuing, the article reads that "in spite of recommendations the majority of the judges were selected from the ranks of the trade." It chanced to be our lot, as

president of the society, by the rule passed last August, to be the appointee of those committees. We do not know from whom the recommendations came, but certainly not from the society itself or from any of its members. "The ranks of the trade" is a little abstruse, and may mean all who are in the profession earning a livelihood, or only those who are interested in commercial plants. We hardly suppose that the correspondent means the former class, for where should we look for judges except in those who make the growing of plants and flowers their life work? And no disseminator would want to trust to the outside world, the best of whom only know but twenty or less of the most grown or most largely advertised varieties, and there are very few amateurs capable of filling this difficult position. If your correspondent means that the judges were selected from the latter class, allow me to inform him that he is mistaken, and does not know the gentlemen on the several committees. In appointing the committees it was our endeavor not to have any one committee composed of any one class or branch of the trade, and to include in the whole all branches of the profession, viz., commercial growers, private gardeners, wholesale and retail florists, disseminators and amateurs. In looking over the list of the several gentlemen comprising these committees we find there were five commercial growers, five disseminators, three private gardeners, one retail florist, one wholesale florist and one amateur. If all the cities were like Boston and Philadelphia, where there are scores of gardeners on large places well able to purchase every novelty, it would have been an easy matter to make up the committee of a majority of this class, but after leaving these two cities you must depend chiefly upon the commercial florist for good judges.

Of the criticisms of the judges we can only say that we personally know them all to be men of the strictest integrity, each and every one knowing full well the good and poor qualities of a bloom for all purposes, and capable of performing the difficult task which they have been kind enough to do, giving time and knowledge gratuitously for the benefit of us all. And of their work allow us to say that we have received letters from all over the country commending the plan adopted and praising the work done.

In closing allow us, as the president of the Chrysanthemum Society of America, to publicly thank the several gentlemen comprising the committees for the work which they have so faithfully performed.

ELIJAH A. WOOD.

South Denver, Colo.

Chrysanthemum James Comley.

The accompanying engraving is from a photograph of a flower sent us last month by Messrs. E. G. Hill & Co., Richmond, Ind., and shows its character very well, but the camera did not clearly catch the peculiar marking of the petals. The color is a soft light magenta, with a hair line of white near the edge on either side of the petal. The distinct coloring and shape makes this distinct from any other chrysanthemum we know, and we believe this will be a very valuable exhibition variety.

Chrysanthemum Mrs. Moses J. Wentworth.

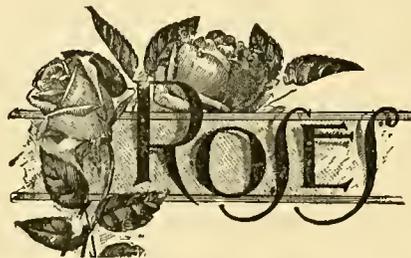
I have noted the remarks on this "mum" in a recent issue and am much surprised to have it termed "yellow Jap., style of Lin-



CHRYSANTHEMUM JAMES COMLEY.

coln." In the first place if I know "what's what" it is hybrid Chinese—and no more resembles Lincoln than Louise D. Black. Its rich color is much like Lincoln and that is the only point in common. I also may add that in my opinion (I think I speak advisedly) it is justly entitled to the certificate given it at the Chicago flower show last November. On the judge's books it read "special mention," meaning the same thing.

GROVE P. RAWSON.



Roses Dropping Their Buds.

"C. L." and several others write that their Bridesmaids drop their buds, but do not state at what stage they drop. The general class of Tea roses, including the whole Mermet family, will occasionally fail to set their buds, though this does not often occur, and there are several causes which make them do it; one of the most general is insufficient air and sunlight at just the critical time, and it is generally most noticeable when the plants are to all appearance growing extra well, but when carefully traced down it will usually be found that the house in which they are growing has been kept a little too close, in conjunction with a little too

much stimulant, either in the form of mulching or liquid, thereby causing the growth to be a little too soft. By watching carefully the effect in this line in different temperatures and under various treatments it will be found that where the plants make comparatively slow growth this trouble never, or very rarely occurs. But where it is the reverse of this it can be found in some varieties more readily than in others, and more in those making apparently the strongest growth.

When Cornelia Cook was grown extensively in this section it was very subject to it, particularly under such circumstances as above. The best remedy we found was to give as much air as possible consistent with the health of the plants, and not water quite so freely as before, particularly in cloudy weather. Pure ground bone as a fertilizer, used sparingly, will also help to prevent this trouble, as its nature is to produce firmer wood. Of course care must be taken at all times not to give the plants a sudden check, as that would be equally as bad as the other. It is somewhat variable in affecting different varieties; in Cornelia Cook the buds get black at a very small stage, generally when not larger than an ordinary pin's head, while in some others they get somewhat larger and decaying. But no matter in what stage it affects the plants it is very annoying, and I trust this will be of some value to "C. L." and others who are troubled in this way.

For roses in general, where they have been growing and blooming freely up to date, as the days are now beginning to lengthen out a little another thin mulching will be beneficial if the manure—which should certainly be well decomposed be-



MRS. PIERPONT MORGAN ROSE.

fore using—is not very strong. It would be better to spread over the surface of the bed or benches a very thin coat of pure ground bone, then cover this about half an inch thick with fine manure, and immediately the plants need it give the whole a good soaking of water, enough to thoroughly moisten all the soil; this carries the small particles of bone down close to the feeding roots where it does the most good. Of course all dead leaves, weeds, etc., should be cleaned off before applying the mulching, and as much air as can reasonably be given should be kept on the ventilators on all favorable days, and for all the general class of tea roses a mean temperature of 56° at night will give much better results than even two or three degrees higher will.

Keep down all greenfly by the use of tobacco either in the form of vapor by means of steam appliances, or by stems scattered over the walks, etc. The smoke from fumigating in the hands of most people is usually very injurious to the quality of the flowers, though it is possible to do it without injuring them under certain conditions; but those conditions must be thoroughly understood before attempting it, and as a rule it is only safe in the hands of those who have long practiced it, that is for houses where the roses are in full bloom, but it is perfectly safe otherwise. We have followed a system of vaporizing tobacco juice here for several years, and have been well satis-

fied with the results. The modus operandi we gave in the columns of the *FLORIST* two or three years ago. Plants are like persons—look much better and feel more comfortable if kept clean.

Summit, N. J. JOHN N. MAY.

Classification of Roses.

There are not many rosarians who adopt the same method of classifying the rose, thereby causing a confusion that is increasing every year. Some simple method should be adopted which would clear away a great deal of useless mystery and complication. The person who has raised a new rose puts it into one class, while it has qualities that would consign it to a different one. To simplify the matter all roses should be placed in the following three grand classes:

First:—Roses that have distinct and separate period of blooming and resting continually throughout the year, called by the French "Remontant."

Second:—Those that bloom continuously throughout the year, without any temporary cessation or rest, called "Everblooming," as the Bourbon, China, etc.

Third:—Those that bloom only once during the year, in the summer months, I would designate these as "Garden" or "Summer" roses, as the French, Provence, etc.

I would subdivide the Remontant class as follows: Double Remontant, Semi-

double Remontant, Single Remontant, moss Remontant, Polyantha Remontant or Daisy Rose.

The Everbloomers I would sub-classify as follows: Double Everblooming, Semi-double Everblooming, Single Everblooming, Tea-scented Everblooming, Climbing Everblooming.

The Garden or Summer roses to be sub-classified as Double, Semi-double, Single, Climbing, Polyantha or Daisy, Summer Moss.

In classing new varieties the originator would have to cultivate the plant for two or three years, also test it in various soils, etc., as roses often come out quite differently the second or third season.

This system of classification would not prevent those who admire the rose from studying its botanical peculiarities. Examining the rose in all its parts is a very pleasing and interesting study. To do so we must observe the color of the flower, form, fullness, size, fragrance, vigor, habit of growth, whether shoots are upright or spreading, joints between the leaf stalks long or short, number of thorns, thickness, color, strength, length, straight or hooked, leaf stalks and foliage; if leaflets whether five, seven, nine or eleven in number, small or large, round, long, indented (serrate) or regular, glaucous and smooth, curled or rough; bark, if green (dark or light), pale brown or red; hardiness of plant, floriferousness, etc.

GEO. M. STRATTON.

Golden Gate Park, San Francisco.

Mrs. Pierpont Morgan Rose.

Personally I have great faith in this new rose of John N. May's. In my opinion it speaks for itself, and will commend itself to growers and the retail trade. Its excellent habit, sturdy, stiff stem and good foliage goes along with a large double finely shaped bloom of a rich, beautiful even shade of cerise red. It is a tone of color that is exceedingly brilliant under artificial light, and a pleasing color under any circumstances—also keeps well—in fact is very lasting as a cut flower.

Be it a sport or what it may

It most certainly has come to stay.

Excuse "Silas Wegg" for "dropping into poetry," but all the same I like the rose. I do not think it should require any further test to decide its merits. If Mr. May has sufficient stock I feel quite sure the public is ready for it, supposing the holiday trade has left us any surplus to deal in first-class novelties.

GROVE P. RAWSON.

Violets.

Mr. Wm. Scott gives several ways of growing violets in the *FLORIST* of December 29. I agree with him that it is very difficult to *always* produce a "first-class quality" of violets, but I think if growers would be careful to follow the example set by this flower in its natural state they would be fairly successful. As near as I can ascertain violets in their natural state grow (and produce the finest flowers) on rather low ground, or at least on rather heavy soil, and produce their crop in early spring when the days get warm and the nights are still *very cool*.

From my present experience I would say that violets should have a day temperature of at least 60° for a few hours each day and be allowed to fall to 35° or 40° at night, and should *never* be allowed to get dry.

I am satisfied that extra quality of violets can not be grown in a carnation house except during the fore part of the season, say in December and January.

When the days get longer and the house runs up to 70° and 80° the blooms come small and plants stop budding. I think plants taken (either runners or divided crowns) in April or May and grown on in 2½-inch pots and planted in bench about August 1, will produce more blooms than the field grown plants. But if not carefully attended to while in the pots or if allow to become pot-bound they might better be planted in the field.

I wish to say this is not from an expert, so you may take it for what it is worth, but violet growers may as well know that "eternal vigilance is the price."

Darien, N. Y.

H. W. HARMON.



Carnation Notes.

There are but few growers who are not well posted about the propagation of carnations, but to those who have had but little experience a few remarks at present may not come amiss. It is the general impression that in the propagation of nearly all classes of plants bottom heat is indispensable and that the carnation must have considerable, and that the sides of the benches must be boarded to the ground. This is unnecessary, for some of the most successful propagating I have ever seen was on a bench that had no heat under it and where the sun never shone. I believe the best house for cuttings is what is termed a north-side house; that is one which is back of a three-quarter span house. Have enough pipes to keep the temperature 55° at night; the mercury should not go above 70° in the day time and 65° is better. Cuttings like plenty of air and light, but the sun should never shine on the bench. If you are obliged to use your main houses for propagating shade the cuttings but not to such an extent as to keep out the air.

Our cuttings are made by simply pulling the side shoots from the flowering stems, and with the exception of Daybreak they receive no trimming whatever; Daybreak foliage is naturally soft and is more apt to decay on the bench, and then as it is somewhat sprawling in its habit by trimming we can place the cuttings closer. Never allow the sand, which should be clean and four inches deep, to become dry, as you thus weaken the cutting; it is a good plan to wet the bench just often enough to keep it moist, and this should be done on a bright day. Some will ask: "How can you wet the cuttings in a north house and have the foliage dry off?" Simple enough; keep the heat on and open the ventilators.

Many believe that cuttings rooted in May will produce better results than those rooted earlier; this may be true of some sorts, but Lizzie McGowan should be rooted as early as February 15 to insure a good sized plant in time for fall planting and a large plant of this sort is necessary to a crop of flowers that will be remunerative. This applies also to Albertini, Stuart, and in fact all of the late sorts, for they can not be piched back in the lot later than July 15 if you wish to have flowers by Christmas. Of course McGowan is not a late sort but outside it is a slow grower except in a few very favorable localities. As soon as cuttings are rooted transplant at once

into good rich friable soil on a bench if possible or in flats. I prefer the former as we can set the plants very close, leaving them for four to six weeks, when they can be reset into flats and placed in a cold frame and hardened off for early planting in the field; this latter point is very favorable to the plant, for if set in the field before May it becomes well established before warm weather sets in. Never use a pot for a carnation cutting.

It is now time to use manure water quite freely as the plants have undoubtedly used up most of the manure that was in the soil, and it must be replenished. If we could only get some of that good old guano such as we got fifteen years ago for manure water. It did make plants jump; but as that is impossible take the next best thing, which I believe is night soil, cow or sheep manure, the latter in water or as a mulch. Do not stir the surface of the soil now as those little white feeding roots are in plain view and have come to the surface for something to eat, so give them what they want in the shape of a good mulch. Any well decayed manure finely sifted and placed evenly on the surface keeps it moist and loose, and you know this is necessary.

CHARLES H. ALLEN.

Dean Hole Carnation.

We recently received blooms of this carnation from John N. May, and were very favorably impressed by it. The color is a clear canary yellow, pencilled with carmine at the edge. Flower good size, calyx long and strong, stem very robust. Mr. May tells us it is a very prolific bloomer, and it is certainly a most attractive flower.



Cypripedium Isabellæ.

(*C. Spicerianum* × *C. niveum*).

The seed from which this plant was raised was sown July 6, 1889, and its first flower opened in December, 1894, about five years and five months from the time of sowing. This hybrid is well intermediate between the two parents; if anything, the *niveum* blood seems to predominate. The leaves are lanceolate, thick, beautifully marbled; the scape is 6 inches long, covered with short down; bract is long, lanceolate, adhering to the ovary which is hardly thicker than the stem. The flower is well proportioned; dorsal sepal broad, arching, white shaded pink and with a deep purple line in the middle; lower sepal smaller, oval, whitish, petals rather broad, undulating, white shaded and lined with pink; lip rather long, rounded, delicately shaded pink on white ground; staminode hexagonal, prominent, white with a lilac dot. This handsome hybrid was raised by George Williams, Whitinsville, Mass., and exhibited before the Massachusetts Horticultural Society on December 8, when it received a silver medal.

Garden Landscapes.

It has been my intention to offer a few remarks on the artifice of garden landscape as a pendant to the various plant-

ing lists published during the year for the use of the florist. I suppose gardeners generally will agree that much of the work being done is capable of improvement, both as to conception and the coloring of the ornamentation. Very much has been written in the most facile language on the analogies of painting, architecture and landscape gardening. These writings are often delightful and instructive, and I am sure I have often profited and even now profit by the best of them, but I cannot blind myself to the fact that they are often overstrained, inasmuch as the painter finds his conceptions or copies his studies outright from the very materials that the gardener has familiarized himself with from infancy, while the architect from the earliest dawn of civilization has gone to nature for all that is best in his forms and ornamentations. It is not that either of them excel the gardener in a knowledge of forms, but that they sometimes pay more attention to harmonizing them that we see them occasionally excel in design. Where they fail, and fail absolutely as a rule, is in their want of progressiveness and continuity. It is not only necessary to paint a picture or wash a landscape plan and place the material on the ground, but its development must be tended from year to year, or everything but the bricks and stones and gravel will grow away (and far away) from the ideas of the mere map maker. It was the superior taste, the knowledge of material and of ultimate effects that made the conceptions of Marnock and Gibson what they were, and the constancy of their supervision that prevented their obliteration, for landscape gardening is a progressive art.

Given the taste and knowledge, which a florist is far more likely to possess than an architect or an engineer, and the method of producing a garden landscape ought to be simple. First then as to material, don't spoil your garden by planting new and untried things; try them or watch your neighbors try them; don't plant sweet bays and English laurels and Scotch brooms by scores where they will be frozen in a year or two, and spoil the picture. Don't listen to the nurseryman who thinks of nothing so much as selling a big bill of trees. Prepare your ground honestly and well, manuring and subsoiling where necessary, and with your grass growing or prepared for think calmly how you can best embellish it. Do not, I pray you, fall into the common error of supposing that the vile ribbons of gravel, dirty yellow or dirty blue, or dirtier brown or white, are embellishments to a surface of nature's green grass. Use them only where you obviously must. You will find customers in plenty who know more about these things than you do who will point triumphantly to the "line of beauty," and you can't agree with them, but where your advice is sought you can do much towards a better taste. Man has gone as far as he can in imitative building. The earliest examples of Gothic I have seen were borrowed directly from the skeleton of the elephant or the buffalo. Later the trifoliations were as manifestly borrowed from the leaves of the field, and the best of the decorations from its starry flowers, or its rayed sunflowers. This architecture in its best examples is always pleasing, because in its pinnacles and its terminals its conception is manifestly material. But nowhere in nature can you find any warranty for transferring such gridironing and curving to the ground. The very cows when they must make tracks often make more direct ones than you do, and more pleas-



DEAN HOLE CARNATION.

ing in their curvatures because more obvious in their reasonableness.

Your best work then will depend not upon transferring fanciful lines from a paper plan, but in taking the very best and choicest of material objects and so grouping them that they will not only be nature, but nature mended and assisted by the exclusion of weedy and gross competitors.

With your smoothest foreground of grass the success of your work and its permanency will depend primarily upon the knowledge with which you select and the taste with which you group your trees and shrubs and plants. So far as outlines go you may often assist your understanding by taking a few of the leading forms of leaf, the horse chestnut, the liquidamber, the various maples and ash, and arrange them on the margins of your writing table, not to be servilely copied, but to give you hints as to what a projection or a recess should be, and how arranged. Remember always that the basis of all your best works must be single plants or trees, and groups of such plants and trees. It is impossible to give rules; every piece of ground requires different treatment. But the obvious blunders may easily be avoided. The whole "frame" of ground should never be filled as you fill your wire frames; it is only the "groups" which may be so filled, and the proceeding is similar, substituting plants and shrubs for a ground-work, and the smaller flowering trees,

sparingly used, as the projecting embellishments. The common shade trees of the nurseries should be but little used indeed in your urban preserves. Their place is along the sidewalk in the large park or in the forest. It is but rarely that a city or suburban lot has room for the development of more than one or two of them.

Trenton, N. J. JAMES MACPHERSON.

A New Year's Reverie.

The beginning of a new year is naturally a time for reflection. It is well to look carefully over the record of the year just gone, and see what we have accomplished; what mistakes we have made, where opportunities have been neglected and to what degree we have made advancement, so that with the light of its experiences to guide us we may plan wisely for the year to come.

As the incidents of the past twelve months pass in mental review before us we are duly impressed with the fact that no year is ever all sunshine or all shadow, but that each in its progress is sure to bring us a fair proportion of prosperity as well as adversity and that he is happiest who can most fully adapt himself to both phases, enjoy the fun and relaxation which may come in his way, and thus equip himself to bear up all the better under the burden which the serious side of life imposes.

The florist, perhaps more than any

other man, should be a thorough philosopher. He must not get discouraged if everything is not yet perfect, ever bearing in mind that although harassed by rust, nematodes, Greeks, anthracnose, hail storms, Dutch bulbmen, sow bugs or what not, yet many keen delights of which the uninitiated have no conception are exclusively his. Who can describe the intense pleasure experienced in watching one's own seedlings, as one by one they come to maturity; the day dreams and night visions of the fortune that lies hidden in those slowly developing buds which like the "watched pot that never boils," seem to take an eternity to open? And then the fun of naming the new comers, searching through the dictionary for appropriate titles that have not already been seized upon by somebody else. And the enjoyment of contributing to some other grower's prosperity by investing one's good money in their much lauded novelties, with the prospect that said novelties may go to the dump after one season's trial, on the principle that "it is more blessed to give than to receive." And the seedsman—why his life would scarcely be worth the living were it not for the everlasting recreation of maintaining a sharp watch over the other fellow, and the satisfaction of spending last year's profits on gorgeous pictures for next year's catalogue. One year ago the outlook was anything but cheerful; much anxiety was felt as to the effect of the prevailing business depression upon the flower trade, and predictions of misfortunes which were to provide the sheriff with plenty of employment were in the air, while the most sanguine could only hope for the best. But in spite of dire predictions we have managed to pull through. It has not been the best year we ever saw, but then it might have been so much worse. As a body we are more numerous than ever before. We are growing in numbers and importance, greenhouse building has continued with but little abatement and progress is apparent wherever we look.

As to the future we need not despair. A more hopeful feeling is abroad in the land and the croakings of a year ago disturb us no more. To press onward and upward should be our aim and with this in view we need have no solicitude as to the final outcome. Year by year we see the buying public becoming more and more discriminating. We must keep pace with them. Old methods satisfy them no longer so it's time we should drop them and catch up with the head of the profession. Then at the close of another year we can look back upon our record 1895 with deep satisfaction and pardonable pride.

W. J. S.

Single Pipe Heating.

I see by the FLORIST that several firms at St. Louis are changing to the single pipe system of steam heat with good results. We put up four houses last year and piped them on the single pipe plan, and we have had enough, to say the least. Possibly we put them in on the wrong plan, but we followed instructions closely.

There is no trouble in getting the steam to circulate nicely when the pet-cock is opened at the upper end of each pipe, but the trouble is when there is 10 to 20 pounds of steam, which often happens. Every pipe is hot from 10 to 50 feet at the lower end, and what are you going to do about it? There is no valve to shut off the steam, and you have 6 or 8 2-inch pipes full of steam for 40 or 50 feet when

only one is wanted. We all know how a pressure of steam will press back the air; as some one has put it, it is a valve-saving, coal-eating system. How do the St. Louis brethren handle that part of the system? It certainly is simple, too simple, I am afraid, for you have no bridle for your beast. Besides, by having your flow pipe running up one end of a block of houses and the return coming back (especially when houses are standing in a block by themselves, away from a shed) the return and flow pipe beats the ends, which is generally a weak spot. We changed it, so our flow pipes are all under the benches, and they all return to the boiler through one 2-inch return pipe. We use a $\frac{3}{4}$ -inch valve to feed our 2 inch pipes.

Let us have some more light on this system, although I don't think we would be tempted to return to it. T. C. JOY.
Nashville, Tenn.

I do not know how the houses referred to were piped, but presume they were correct, as they say they followed instructions closely. The real trouble was at the boiler end of the system, and is explained when they state that they carry from 10 to 20 pounds of steam. Now I am not prepared from experience to say what that amount of pressure would be on pipes filled with air if kept up constantly, but would expect it (the steam) to unite with or displace the air entirely after a reasonable time, and that appears to have been the case in this instance.

Judging from Mr. Joy's remarks they have no way of controlling the amount of steam or pressure desirable, and ask "What are you going to do about it." I can only answer from my own experience. With automatic dampers I find no difficulty in controlling the amount of steam needed, and in my case from 2 to 5 pounds is all that is ever carried. In fact my steam gauges oftener stand 1 to 2 pounds than above that, and they work very smoothly. I have two boilers, and for winter use they are connected and run together, but in spring and fall they are disconnected and either one run separately, thereby economizing fuel and reducing pressure as the number of pipes are reduced. I think the best results are obtained both in service and economy by low pressure in this system, and provisions should be made to secure it.

THOS. FRANKS.

Overhead Heating With Hot Water.

I was quite interested in your article from J. P. Ring in the FLORIST of November 3 on overhead heating, or rather overhead feeding, as I have been using the system in three of my houses, and supposed I was alone in it. I think I am alone in one respect, as I am using hot water instead of steam, and think it, from its operation, to be the best system of piping I have ever seen or tried, especially for hot water, and don't see why it would not be the same for steam.

I am heating about 10,000 feet of glass, a large shed and my dwelling by hot water from one boiler, and in three of my houses am using the system of piping overhead as described by Mr. Ring, but differing somewhat from him. In one house 50x10 even span (carnations) I use one $1\frac{1}{4}$ -inch pipe overhead each side of the path or walk, and return with four 1-inch pipes under each bench, eight in all, and at the end of the house one $1\frac{1}{4}$ -inch pipe returns all these to the boilers, distant about 75 feet. One $1\frac{1}{4}$ -inch globe valve at the boiler operates this house,

and one 1-inch globe valve at return end of each bench enables me to run either bench or both as desired. The valve at the boiler controls the heat in this house without going into the house except to ventilate, and I can tell by the valve how much heat the house has. One complete turn of the wheel of the valve will heat one or both of the overhead pipes to the end of the house without heating under the benches, so that in mild weather the moisture and chill of the house can be controlled without heating under the benches. I have another house 60x20 (three-quarter span) with two $1\frac{1}{4}$ -inch pipes overhead on top of each other on the posts supporting the lower side of the middle bench, returning with four $1\frac{1}{4}$ -inch pipes under each bench (the lower and middle one) eight in all. This brings the overhead pipes about midway of the longer span (facing east) of the roof. At the north end a $1\frac{1}{4}$ -inch pipe returns all these pipes to the boiler, about 25 feet. A valve $1\frac{1}{4}$ inches at the boiler operates this house same as the carnation house.

The benches in this house are about on a level with the top of my boiler, and yet one turn of the wheel of the valve will head the overhead pipes to the end of the house without heating under the benches, and on a night like last night (December 5) about 10° below freezing, a fire at 10 p. m. runs the pipes until about 4 a. m. without changing the valve, the overhead pipes taking the chill off the house and keeping the glass more clear of frost not so much drip is experienced in the morning, and as "mums" are grown in this house its benefit can be imagined.

Another house 80x20 even span (and connected to my dwelling) has one 3-inch pipe overhead about midway of the eastern span of the roof, and runs to my dwelling. Six $1\frac{1}{4}$ -inch pipes drop from the end of this pipe into my cellar and are carried under the joist and come up in different rooms into radiators, passing back into the cellar, and returning to the greenhouse, coming up under the three benches, and are then carried through this house in four 1-inch pipes under each bench—twelve in all—while at the end of this house two $1\frac{1}{4}$ -inch pipes return these to the boiler about 60 feet distant. Two $1\frac{1}{4}$ -inch valves at boiler control these pipes with two 1-inch valves at return ends at the greenhouse. This 3-inch overhead pipe is hot all the time, but with the two 1-inch valves and the boiler valves can heat the house and return all through the greenhouse through a $1\frac{1}{4}$ -inch pipe (as one bench has three 1-inch pipes and one $1\frac{1}{4}$ inch pipe) without heating the greenhouse except by the 3-inch overhead. In severe weather this pipe (3 inch) keeps the roof clear of frost and controls the moisture, but not any more than the two $1\frac{1}{4}$ inch pipes in the other houses. I like it very much and would if erecting a large plant pipe every house overhead with small pipe— $1\frac{1}{4}$ -inch or under—and return under the benches with 1-inch or $1\frac{1}{4}$ -inch pipe, especially if using hot water, and that would be my heat. Have tried steam, and—well, throw the mantle of charity over it and call it a mistake.
A. T. HOYT.

Value of Fresh Palm Seeds.

The latter part of November I received a consignment of five thousand freshly gathered seeds of *Livistona rotundifolia* from Demerara, S. A.. They are now germinating, after being planted but six weeks. I have others planted way along last spring that are still at it; of course, they were not a fresh article but may

grow like canna seeds past their prime—"after many days." *Livistona rotundifolia* is a diamond of the first water, does beautifully on the continent and is a thing of beauty in the public parks and gardens. It is also an easy and quick grower in this hot moist climate, and ripens seeds abundantly. The Botanic Gardens in Demerara are much the finest in all the tropics, an exotic Kew out of doors.

Arecae make magnificent clumps. *Livistona glauca* is a sight to behold, as well as hundreds of other species, added to the seventy native varieties in habitat. Taking it all in all, you have a palmetum glorious to behold; the shimmering fronds of the noble *Eta* interlace with the bronze green *cocos*—the tall graceful *enterpe* towers high above the spreading *Koke-rite* and *martinezia*—and so on, ad infinitum. But why rhapsodize when it only makes one restless to leave frost and snow for the dear sunny south. I much prefer to study nature than "work her"; however business is business.

GROVE P. RAWSON.

Water Gardens at Clifton, N. J.

The lily ponds of Wm. Tricker & Co. at Clifton were during the past season visited by thousands of people, to many of whom doubtless this was the first illustration of the possibilities in aquatic gardening and the almost incredible results that may be accomplished in the transformation of a tract of worthless, boggy and unsightly land into a spot of surpassing loveliness.

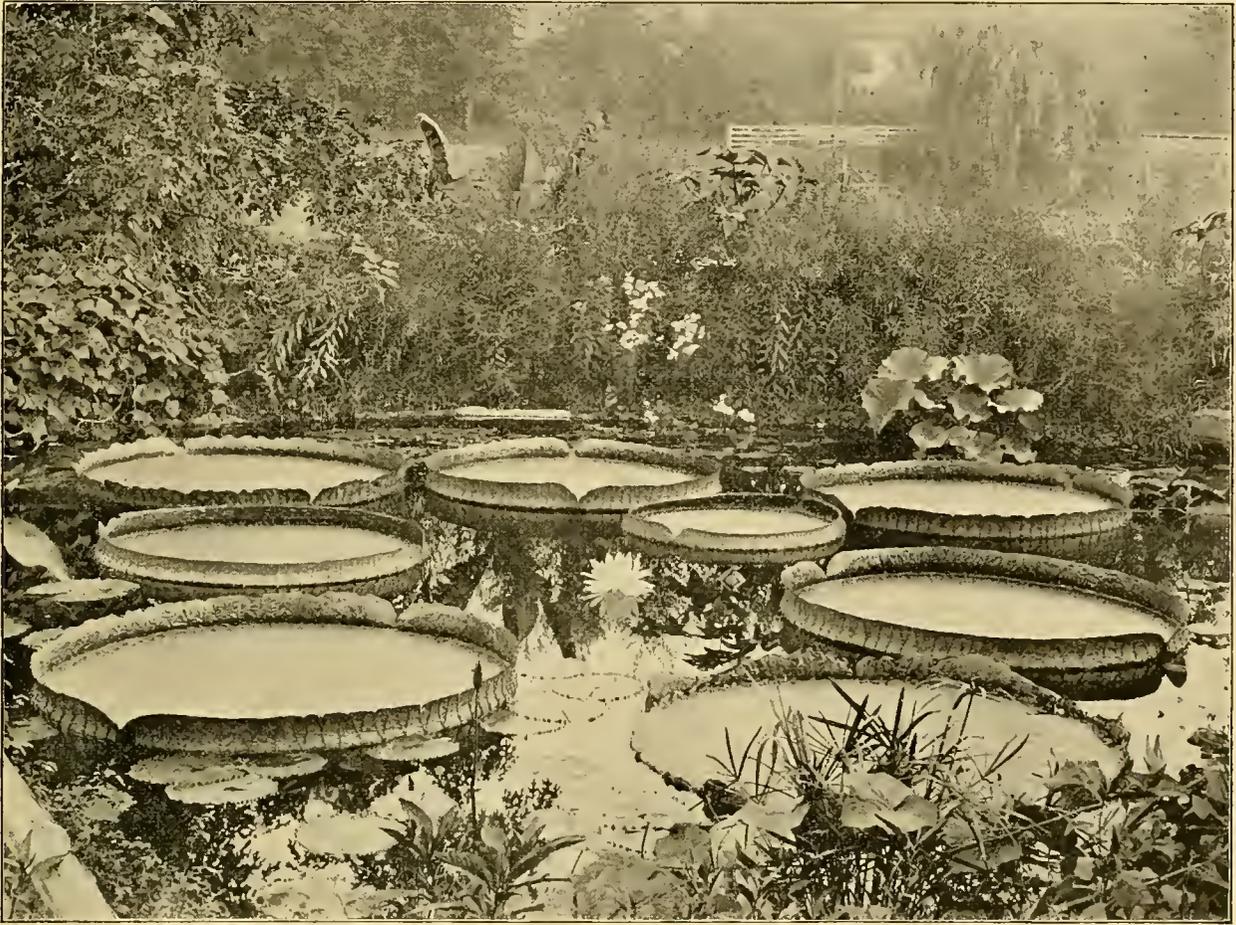
In our issue of August 2 we gave some account of the enterprise which is so well illustrated in the photographs presented in this issue. The pictures speak for themselves; the *Victoria regia*, *nymphæas* and *nelumbiums*, the luxuriant borders of bog loving shrubs and herbaceous plants, the clumps of noble grasses, form a most beautiful and attractive scene, and it is not surprising that it drew crowds of admirers.

The piece of land utilized for this water garden was originally about as uninviting a piece of bog as could be imagined. The several ponds are divided off so as to suit the requirements of the different species of plants grown, arrangements for heating the water and giving protection in cold weather being provided for the tender and half hardy sections, but the greatest attention is paid to those varieties which are entirely hardy, and to increasing the list of novelties in this line.

Mr. Tricker's paper on aquatic plants read before the Society of American Florists at Atlantic City was a most useful contribution to aquatic literature, and all those interested in water gardening are advised to peruse it carefully.

Mass. Hort. Society.

In addition to the regular appropriations for premiums at the exhibitions throughout the year the Mass. Hort. Society offers very liberal prospective prizes for new fruits, flowers and vegetables. These include a prize of \$100 for seedling native grape, \$60 each for seedling pear, apple and hardy grape; \$30 for strawberry; \$40 each for cherry, raspberry, and other fruit. In flowers \$50 each for seedling rose, camellia, *Azalea indica*, tree *pæony*, hardy *rhododendron*, herbaceous *pæony*, hardy *azalea*, *chrysanthemum*, single flowered tuberous *begonia*, and other flowering or foliage plant. In vegetables \$30 each for early potato, late potato, and other seedling



A CORNER OF THE WATER GARDENS AT CLIFTON, N. J.

vegetable. The schedule conditions under which these prizes may be competed for may be had on application to Robert Manning, secretary, Horticultural Hall, Boston.

The following program of meetings and subjects for discussion for the season of 1895 has been issued:

January 5. Annual address by the president.
January 12. Days with our birds (illustrated), by Mrs. Kate Trvou, Cambridge.

January 19. Flower pots and their manufacture, by A. H. Hews, North Cambridge.

January 26. Fungus diseases of ornamental plants, by Professor Byrou D. Halsted, Botanist and Horticulturist at the New Jersey Agricultural Experiment Station, New Brunswick, N. J.

February 2. Hardy plants and shrubs and their arrangement, by J. Wilkinson Elliott, landscape architect, Pittsburg, Pa.

February 9. Glass houses, their construction and heating, by Henry W. Gibbons, of Hitchings & Co., New York.

February 16. Economic entomology in relation to trees, shrubs and plants in parks and private grounds, by E. B. Southwick, Entomologist to the New York Park Department.

February 23. Experimental evolution amongst plants, by Professor L. H. Bailey, Cornell University Ithaca, N. Y.

March 2. A talk on gardens, by D. H. Coolidge, landscape architect, Boston.

March 9. Budding and grafting, by Jackson Dawson, Arnold Arboretum, Jamaica Plain.

March 16. Tomatoes, by Professor W. M. Munson, B. S., Maine State College Agricultural Experiment Station, Orono, Me.

March 23. Edible native fungi, by John M. Kinney, Boston.

March 30. Commercial fertilizers as applied to horticulture, by Professor W. H. Jordan, Director of the Maine State Agricultural College Experiment Station, Orono, Me.

Our trade directory and reference book for 1894 contains 270 pages of information of real practical value to every one in the trade. Price \$2.00.

New York.

The meeting of the Florists' Club on Monday evening, January 14, was a veritable feast of felicitation and congratulation. The first exercise on the program, retiring president O'Mara's valedictory, set the pace for everything that followed and good nature prevailed throughout. Mr. O'Mara spoke of the pleasant features of his year of service; he had always tried to do his best and if errors had been committed or he had offended anyone the fault was of the head and not of the heart. He congratulated the club on the material progress made during the year just passed and complimented especially the committee intrusted with the club's interests on the trip to Atlantic City, and the essayists who had contributed to their entertainment and profit, referring pleasantly also to the trip to Oakdale and the hospitality extended by Mr. J. H. Taylor on the occasion of his smoker.

President-elect Chas. H. Allen, being escorted to the chair, thanked the club for their confidence and kindness, expressing his appreciation, of the high honor conferred upon him in selecting him to preside over a body of men which has no equal in this or any other country in respect to the lines of business represented, and which although originally started for social purposes mainly has now become a power in the land and a great educator in many ways. He asked the hearty support of its members for the officers and committees, promising that active steps would be taken towards assuring a fall exhibition and perhaps

small free monthly exhibitions as well. He advocated the enrollment as honorary members of gentlemen who from their position or attainments should be deemed entitled to the honor and at the same time lend prestige to the organization. The vice-president elect C. G. Weeber, Treasurer C. B. Weathered, Secretary John Young and as many of the trustees as were present were then severally presented to the club, each promising his best efforts in the year to come.

The treasurer's report showed the club to be financially in good condition and from the report of the secretary it was learned that the list of members in good standing had increased from 149 to 185 during the year; also that there had been two deaths in the ranks, L. Fremin and T. L. Russell. The proposed amendments to the by-laws were adopted and Messrs. R. M. Grey, A. Wallace and Chas. Webber were appointed as the entertainment committee for the coming year. The president announced that at the next meeting the subject of the disease affecting Harrisii lilies would be fully discussed. It was also announced that meetings would hereafter be called to order promptly at 7:30 p. m., regardless of the number present.

An invitation was extended by Mr. H. A. Siebrecht for the club to visit the greenhouses of Siebrecht & Wadley at New Rochelle for the purpose of inspecting the new rose Belle Siebrecht as growing there, and it was voted to accept the invitation and go in a body on the train leaving the Grand Central Station on Wednesday, January 23, at 12 o'clock noon. Two

large vases of this rose were exhibited on the table. Votes of thanks to the retiring officers, also to Mr. J. N. May for his services in staging the club's exhibit at the Philadelphia chrysanthemum show were unanimously passed.

The Very Rev. S. Reynolds Hole and Mr. W. Bayard Cutting, being proposed for honorary membership, were duly elected by acclamation.

The meeting of the Bowling Club on Monday afternoon was a rouser and much enthusiasm prevailed. Keppler was as usual a wonder in making difficult spares, Hafner and Koffman scored their customary record at either talking or making a noise, Doran and Burns were always ready to "go you a quarter," and Asmus had fun at everybody's expense. At the business meeting Alex Burns presided with firmness and dignity, six new names were added to the roll and a vote was passed inviting the Flathush Bowling Club to meet the New York aggregation in a friendly contest on Monday, February 4.

Cut flower trade has been anything but satisfactory during the past week. Prices on many kinds of stock have been ruinously low. Violets have perhaps suffered the greatest set back and the figures now realized are not more than one half what the growers looked forward to. There are hopeful signs that the worst is past now, however, and that while prices in general are apt to rule low yet there will be a gratifying demand and a market for most of the good stock that comes in for the next six weeks. But fancy prices for anything are plainly out of the possibilities.

At W. L. Swan's Seawanhaka greenhouses at Oyster Bay there is a seedling canna which promises to be a leader in the dark foliaged section. It has been named The Professor in compliment to foreman Jas. Clark, who is familiarly invested with this title by his good natured employer. An immense quantity of bedding plants are grown and used on this place, which is beautifully located on one of the most attractive spots on the northern Long Island shore. Crotons have proved exceedingly valuable and satisfactory here as bedders, coloring up grandly in full exposure to the sun. The greenhouses are lighted throughout by electricity.

Robert J. McCullough, late of 82 Montague street, Brooklyn, has disappeared, leaving his wife and a number of creditors to mourn his departure.

Frank Millang is doing a fine business at the 34th Street Market. His innovation in making this his permanent headquarters proves to have been wisely planned.

Cards are out announcing the approaching marriage of Miss Minnie H. Gentzel to Jos. A. Manda, Jr. The ceremony will take place at Milburn, N. J., on Jan. 23.

Mr. S. C. Nash has been confined to his home by sickness for the past two weeks.

H. C. Neubrand of Tarrytown will open a retail store corner of 68th street and Columbus avenue, about February 1.

Chicago.

Although the transient business is still very quiet, there is a decided improvement in the line of decorations. We have now entered upon the regular social season, and to judge by the number and extent of the orders that are now being booked for the near future, the season will be quite a lively one. The prospects are certainly much brighter than a year ago, and consequently everybody is looking cheerful. Even the grower wears

a more contented smile than has been his custom for many a day. If the stuff doesn't bring Christmas figures it is at least sold at living prices, and if any stock is thrown on the "dump" it is of a character unfit for use. The demand for really good stock is about equal to supply; perhaps this isn't saying much for the demand, since good quality is not so much the rule as should be. Prices remain the same as last week, with this difference, that the top figures of list quotations are maintained all along the line. First quality Beauties still remain extremely scarce, and much of the second grade stock has to be worked in to fill orders. Bridesmaid is off crop with a number of growers, and with an ever-increasing demand for this rose only a fraction of the demand can be satisfied. Under these conditions it gives the Mermet a chance. The retail boys, however, don't take kindly to the idea of being obliged to substitute the latter for the former, but then it is Hobson's choice—either take Mermet or go without pink roses. The supply of Testout doesn't cut much figure, as there are but very few grown around the city, and these too seem to be off crop. First-class La France are as scarce as the proverbial hens' teeth, in fact there are few, good or bad. The demand for this rose is only local at any time, as it is hardly ever called for in the shipping line. Meteors are more plentiful and the quality improving. Brides have shortened up, and under good demand hold steady at \$5 to \$6 for selected. The demand for carnations is increasing with the supply, which promises to be quite large in a week or two. Prices have stiffened somewhat, and good commons seldom go below \$2. Grace Wilder is the only variety that goes very slow. This variety, at least of the quality as seen in our market, has no ghost of a show with Scott. The Scott by the way is not grown extensively for our market as yet. The growers, however, are now taking hold of it in earnest, and next year doubtless it will supplant Wilder entirely, as the latter has been but rarely grown of satisfactory quality. The supply and demand of violets keeps the commission men guessing. Some days the supply is large and demand light, and the very next day vice versa. As the stock is of that nature that it has to be cleaned up every day, it is not the easiest matter in the world to sell out one day and fill urgent orders the next. There is no trouble whatever with real good stock which sells itself; unfortunately there is too much of the poorer quality. In bulbous stock there is the addition of tulips, La Reine, a few Proserpine and Chrysolora, but as yet of poor quality. A few Von Sion have also made their appearance, and sell readily at \$4. Mignonette is rather slow, with little or no demand for the poorer grades.

Shipping trade has improved considerably, and the demand in this line is now fairly active.

One by one the old pioneers of Chicago's early floricultural history drop away, to join the silent majority. By the sudden death of Mr. Samuel Muir at his home on Prairie avenue on Saturday last Chicago has lost one of its ablest and most honored florists and horticulturists. His old establishment on South Park avenue and 31st street was a landmark for many years. His down town store on Lake street, then the leading thoroughfare of Chicago, was one of the very first attempts in this line. Here, with many others, he was burnt out in the great fire of 1871. After several changes Mr. Muir

finally built a range of houses on Michigan avenue, where he soon built up a prosperous business. His sterling qualities as a business man, coupled with a genial nature, made him many warm friends, who sincerely mourn his loss. At the obsequies, which were held on January 15, many of his numerous friends and brother florists were in attendance, and many a fragrant blossom offered by loving hands testified to the high esteem felt for him now resting beneath the sod at Oakwood Cemetery.

Mr. O. P. Bassett started on a business trip to the east last Tuesday.

Visited Chicago: J. G. Cheever, North Attleboro, Mass.

In a recent conversation among a number of those in the trade the question arose as to whether the late Samuel Muir or the veteran August Dresel had been longest in the business in this city. Mr. Dresel, being present, said that he came to Chicago in 1866 and that Mr. Muir was then in business near the corner of South Park avenue and 33d street. He called upon Mr. Muir on his way into the city from Lafayette, Ind. Mr. J. T. Anthony said that Mr. Muir's establishment on South Park avenue was built on ground that was a part of old Camp Douglas, which was occupied by the soldiers during the war and till the fall of 1865. Mr. Muir built soon after the camp was evacuated. He had worked a year or two at Lake Forest previous to this.

At the annual meeting of the Horticultural Society of Chicago, held last Saturday afternoon, officers for 1895 were elected as follows: Wm. H. Chadwick, president; E. G. Uihlein, 1st vice-president; F. J. Lemoyne, 2nd vice-president; Martin Ryerson, 3d vice-president; Wm. C. Egan, secretary; W. N. Rudd, treasurer. J. C. Vaughan, G. L. Grant and O. P. Bassett were re-elected members of the Executive Committee. A goodly number of new members were elected, and the annual reports showed the society to be in good condition.

The officials of the International Exposition to be held in Honduras, Central America, in 1896, are negotiating for the World's Fair Horticultural Building at Jackson Park. If the arrangements are carried through the building will be taken down and shipped by rail to New Orleans, going thence by steamer.

Application has been made for a receiver for the World's Fair Floral Co.

Boston.

There was quite an interesting exhibition at Horticultural Hall on Saturday, January 12. It was prize day for Chinese primroses and several growers staged well grown plants of these useful winter favorites. Nothing new or striking was shown among the plants, but among the cut blooms contributed by W. E. Coburn there were some pretty novelties in color and markings. L. W. Goodell showed good blooms of chrysanthemums L. B. Bird, R. M. Grey and a yellow seedling. Sewall Fisher's seedling white carnation was on exhibition again and showed up well. Some Marie Louise violets picked from pot grown plants from David Nevins were the finest violets seen in this hall for many a day, and freesias from W. N. Craig were also extra good.

The illustrated lecture on birds by Mrs. Tryon proved to be a rare entertainment. The lower hall was comfortably filled and had it been more generally known what a treat the lecture would be there would not have been room in the building



A CLUMP OF ORNAMENTAL GRASSES AT CLIFTON, N. J.

to hold the audience. In the course of her remarks the lecturer made a commendable appeal for the preservation of the native trees and plants of New England, but expressed disapproval of the introduction of those of foreign origin, claiming that the planting of Japanese and other foreign trees and shrubs will have the effect of driving away the native birds, a theory which is certainly based more upon sentiment than upon fact or reason.

Married, Thursday, January 10, Charles Montague Atkinson and Josephine Rice Simmons. The happy couple started immediately for the south, intending to spend a short time in Washington. A handsome gold headed cane for the groom and an equally valuable umbrella for the bride were the gifts of their gardener and florist friends.

F. L. Hardy has taken possession of the Donovan greenhouses at Natick.

E. F. Costeller has started in business at the Adams greenhouses in Quincy.

Philadelphia.

The illustrated lecture by Prof. John B. Smith, entomologist of the New Jersey Experimental Station on "Insects injurious to plant and tree life" at New Century Drawing Room Monday evening, January 14, was most interesting and instructive. The lecture, which was given under the auspices of the Penna. Horticultural Society, Insect and Fungus Section, was felt to be so important that a whole evening was given to it, and the business

meeting of the society was held on Tuesday following. The lecture was illustrated with stereopticon views thrown on a large canvass twenty feet square. In the course of his lecture Prof. Smith said some insects feed by sucking and others by eating, and different methods have to be resorted to in order to exterminate them, as the same poisons will not kill all kinds. Insects of all kinds are great feeders and are continually gorging themselves with food. Sucking insects are generally covered with a scale or substance that prevents their destruction with ordinary contact poisons. Fish oil emulsion that contains caustic potash, which would eat through the scale, was considered the best remedy. Scale when young move about and are then easily killed, but when they settle and commence life in earnest the scale forms and they are protected from ordinary contact, and extreme measures must be used to kill them, such as will break through their covering either by violence or corrosion caused by some mixture containing caustic potash. Eating insects, such as move about can be reached by stomach poisons. Dry insect powders should be very fine, otherwise they are not efficient. Many have used tobacco dust with good results, while others have failed simply because their powder was not fine enough. Insects have no lungs and breathe through the sides of their bodies through minute tubes, the powder if fine enough is taken in and clogs up the air passages and the insect suffocates. The same result follows with solutions of a whale or fish oil soap, as this forms a film over

the openings closing them up. Powdered sulphur dissolved in water is death to red spider. Sexless insects such as the aphids reproduce ad libitum and the florist should be on the lookout, and on the first appearance apply the remedy. Sweetened bran mixed with Paris green was sure death to cut worms and farmers put this mixture in their corn hills when planting their corn and a little put in when roses were planted in soil where these pests were supposed to be would be death to them. Nitrate of soda would also kill grubs by applying it to soil. Bi-sulphate of carbon if allowed to evaporate slowly in an enclosed box would kill all forms of animal life except scale, and plants infected with spider or mealy bug could be thoroughly cleaned in an hour's treatment. This treatment will also kill weevil in grain of all kinds, but needs to be carefully handled as it is very inflammable. The lecturer was listened to with great attention throughout and received by unanimous vote the thanks of the society.

The business meeting of the society was held at the hall of the College of Physicians, 13th and Locust, on Tuesday evening, 15th inst., Mr. C. Clark, the newly elected president, presided. Bids for the work of erecting the new hall are to be invited at once so as to ascertain the actual cost of the building.

The society has lost a good friend and earnest worker in Dr. Wm. A. Reed, who died, aged 67, on Tuesday the 15th inst. Dr. Reed was a member of the society for a long time, and served several terms as one of the vice-presidents. He took an

active interest in its welfare and was a regular attendant at its meetings.

Business the past week has been only fair except for the Assembly Ball, when the boys were all busy. There is an abundance of flowers except Beauties and hybrids, for which the demand equals the supply. Good Beauties and Belles bring \$6 per dozen and range according to size down to \$1 per dozen for the shortest stock. Most of the large teas sell for \$8 to \$10, a few extra select \$12 to \$15; smaller roses bring \$4 to \$6. Carnations are a shade lower and \$2 is now considered a good price for fine stock; \$2.50 to \$3 is still asked for extra fine flowers. Some very good stock has been offered on the street for 20 cents per dozen by the fakirs, and carnations have sold as low as \$7.50 per thousand. Romans sell for \$2 to \$3, valley \$4. Doubleviolets are to be had in quantity at from 50 cents to \$1.50 per hundred. Smilax sells for \$15. Callas \$1 per dozen. K.

Cincinnati.

The annual meeting of the Cincinnati Florists' Society was held at the society's rooms in the flower market, Saturday eve, January 12. The attendance was small owing to the bad weather.

Business has got down very low again and there is comparatively nothing doing now and not much prospect of more until Easter. Roses are plentiful and more than supply the demand; in consequence prices have taken a big tumble. Other flowers have of course followed suit.

We hear a great many complaints about the Kresken carnation; it is bursting the calyx with many of the growers. We would like to know the cause.

We have been having very cold weather with a large percentage of dark days, the thermometer dropping 8 below zero. In bulb stuff there is plenty to choose from and at low rates. Harrisii lilies are extremely plentiful, with but moderate sales. In price they range all the way from \$2 a dozen for selected long stemmed stock to \$5 a hundred for a fair average grade, and it is needless to say there is more sold at the latter price than the former. Romans are still sent in by the bushel; they must have been purchased in immense quantities, for the stock does not seem to diminish a particle. They run from \$1 to \$3, paper white the same. White and yellow tulips go well at \$4 to \$5, red sell rather slowly at \$3; double daffodils have made their appearance and sell at \$6. Greens continue to go very slowly; smilax was never in less demand.

Carnations are now from \$1.25 to \$1.50 for the general run and \$2 to \$3 for extra stock such as Daybreak, Kresken, etc. Valley is scarce. Double violets sell at from \$1 to \$1.50 for the best.

Mr. Robert Murphy, of Delhi, who has been confined to the house for several weeks, with rheumatism, is able to be about again. P.

St. Louis.

The meeting of the St. Louis Florists' Club was held January 10. The principal topic was changing the time of meeting from day to night session; it was left for consideration until next meeting. After the general routine of business there was a discussion of general topics, such as growing valley, state of business generally etc. The reports were mostly satisfactory.

Business around town is reported rather slow. There are only one or two retailers who report business moving. C.

Young & Sons have a big ball for next Monday night. The ball-room is to be decorated with Mermets and orchids, the hall with orchids and lily of the valley, the drawing room with Watteville roses and Romans, and dining room with Meteors with a center piece of Beauties.

R. F. Tesson has been sick in bed with the grip, but we hope that he will soon be among us again.

The bowling club has just finished another series of twelve games, C. Beyer carrying off both medals with an average of 192½ for twelve games; 255 highest run. Dr. Helwig carries off the medal that very few like with an average of 44 5-12 for twelve games. A. Y. E.

New Brunswick Notes.

Christmas trade was unusually good this season, prices keeping well up. Roses were a very short crop owing to the cold, dark weather, and the carnations held the balance of power.

In St. John McIntosh had a fine stock of late chrysanthemums for which he realized extra prices. McLean as usual showed some extra Perle, Bride and Gontier roses. Jones was unable to supply all orders even after buying the stocks of several of the smaller concerns. Cruikshank's store appeared full all day the 24th, and the absence of stock in their window presaged a fat order book. The funeral of a leading member of the local government also called for a large quantity of floral work, which helped materially to reduce the Christmas stock.

Goold of Sussex showed some of the finest Wm. Scott and Buttercup carnations ever grown in the province, and he didn't have much trouble to sell them. He reports the best Christmas trade that he ever had.

Strange to say in Moncton, only eighty miles from St. John, trade was unusually quiet, the local men sending a large part of their stock to St. John.

Four or five new houses are reported to be in course of construction in St. John by new comers. I am afraid they will find a hard row to hoe, as with the exception of Christmas and Easter the business the balance of the season is badly overdone and the market for both cut flowers and plants very much overstocked.

Your correspondent attended the funeral of the late Sir John Thompson, Premier of Canada, at Halifax, N. S., in charge of the Liberal-Conservative design. The floral display was certainly the finest ever seen in Canada. There was over half a ton of floral designs alone. Harris of the Nova Scotia Nursery had charge of the decoration of the mortuary chamber and he did his work well. Magnificent specimen plants of pteris, davallia, Pandanus var., Lat. borbonica and marantas and a fine specimen of Phoenix rupicola dotted the floors, and pots of calla, Harrisii and narcissus filled the window recesses. Davidson of Montreal had ten pieces, the largest of which, a mammoth wreath six by seven feet, of roses, carnations and Roman hyacinths on a black bier draped with several wreaths of natural flowers, was the largest design ever made in Canada. A slanting cross five feet high was undoubtedly Mr. Davidson's masterpiece, the base being especially well done. The wreath of laurel and cedar sent by the Queen of England was of course eagerly looked for by the spectators, but its association was all that made it remarkable, as it possessed no beauty whatever. A large wreath of autumn leaves with cross of trefoil in center from the Governor-General of Canada

occupied a conspicuous position. The use of autumn leaves in funeral designs is like the use of dried grasses or flowers, much to be deplored, as they possess no real beauty nine times out of ten, and they fail to convey the beautiful idea conveyed by the natural flowers. Harris of Halifax had about a dozen fine designs, the most noticeable of which from a florists' standpoint was a wreath of cattleyas, cypripediums, Lælia anceps and roses. This was a beautifully piece and artistically arranged.

A beautiful standing cross made by H. C. Goold, of Sussex, occupied a conspicuous position opposite the coffin; the press notices of the design were very flattering to its maker. The base of this piece was of Roman hyacinths and his new hybrid amaryllis, Queen of the Day, which was mistaken by the reporters for an orchid.

A magnificent steering wheel made by C. Campbell, of Montreal, 7 feet in diameter, was a most beautiful piece of workmanship and elicited the greatest praise from all who saw it. This design was composed chiefly of Bride roses with an inscription of purple chenille which looked very fine on the dead white. A cross by Scrim, of Ottawa, and a wreath by Parks, of the same place, were good, but arrived badly frosted. A wreath by Graham, of Ottawa, was also well made.

There were a large number of good designs, noticeably a fine scroll of honor from a Boston florist, for which your correspondent can give the makers no credit on account of there being no labels with the packages. S.

OBITUARY.

SAMUEL MUIR.

Samuel Muir, one of the best known florists in Chicago, died suddenly of paralysis of the heart at his residence 4044 Prairie avenue, on Saturday, January 12. Mr. Muir was born at Twynholm, a small village in the southwest of Scotland, February 4, 1833. After receiving a good common school education at the age of 14 he entered the gardener's profession as an apprentice in Glasserton Gardens, Wigtonshire, under Mr. A. McMorran, one of the very best all round gardeners in that country. After completing his term he went to Edinburgh, and entered the extensive nurseries of Messrs. Dickson & Co. of that city, thence to the Botanic Gardens of Manchester, Eng., and at the age of 21 decided to try his fortune in the United States. He landed in New York on April 3, 1854, remaining there one year and a half, afterwards proceeding to San Francisco, Cal. Still following his occupation in some of its various branches he visited Stockton, returning to New York after a lapse of two years, when he married and settled down for some eight years. In 1864 he came to Chicago, and with the exception of one year has remained here ever since. Mr. Muir was greatly esteemed and respected in the trade of which he was a veteran member, and his sudden death comes as a shock to a large circle of attached friends. He was a member of the Chicago Florists' Club and of several other societies and organizations. His funeral took place on Tuesday, January 15, and was largely attended.

SING SING, N. Y.—Mr. W. W. Law will add a new house 18½x133 to his present range of glass at Scarborough, N. Y. It will be iron frame construction, with iron bench frames and hot water heating. The contract has been awarded to Hitchings & Co.

A Campanula Leaf Spot.

The *Campanula grandiflora* as its specific name indicates is a species of blue bell with large flowers. It is in fact one of the favorites in the modern ornamental grounds. Of late this plant has suffered from a blight of the foliage that is easily recognized by the large blotches of brown and white in the leaves. A fair sample of this trouble is shown in the accompanying engraving made from a sun print of a single leaf. The fungus is a member of the genus *Cercospora* and therefore a near relative of the spot of the mignonette so abundant and destructive in some places. Usually the spot is much larger in the blue bell than the mignonette leaf. Under the microscope the fungus consists of fine much branched filaments which run throughout the leaf and come to the surface at the stomata and passing through them extend some distance above the leaf surface. The spores are long, somewhat the shape of a billiard cue and borne upon the extended filaments. These spores fall away easily and are carried to other parts of the foliage and produce new spots.

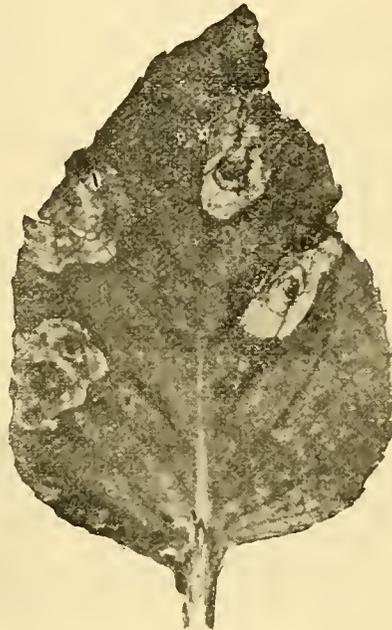
As in the case of the cercospora of the mignonette and that of the celery, for one species is the cause of the "rust" so-called of the latter plant, this one could no doubt be controlled by the use of Bordeaux mixture. BYRON D. HALSTED.

Exp. Station, New Brunswick, N. J., October 25, '94.

Catalogues Received.

Pitcher & Manda, Short Hills, N. J., seeds and bulbs; Currie Bros., Milwaukee, Wis., seeds and plants; James J. H. Gregory, Marblehead, Mass., seeds; L. L. May & Co., St. Paul, Minn., seeds and plants; J. C. Gibson, Woodbury, N. J., novelties in plants and seeds; Oscar Tiefenthal, Wandsbek, Germany, plants, seeds and bulbs; M. Crawford, Cuyahoga Falls, O., strawberry plants and gladiolus bulbs; Coles' Seed Store, Pella, Ia., seeds; W. Atlee Burpee & Co., Philadelphia, seeds; Humphreys Mfg. Co., Mansfield, O., spraying machinery; Bush & Son & Meissner, Bushberg, Mo., grapes; G. C. Watson, Philadelphia, spring bulbs and seeds; H. G. Faust & Co., Philadelphia, seeds; Harnden Seed Co., Kansas City, Mo., seeds; J. A. Everett, Indianapolis, Ind., seeds; Jos. F. Dickmann, St. Louis, seeds; F. Dorner & Sons, Lafayette, Ind., carnations and chrysanthemums; I. N. Kramer & Son, Cedar Rapids, Ia., plants; W. H. Cassell, Canton, Miss., plants; Theo. Koss, Milwaukee, Wis., seeds; Haage & Schmidt, Erfurt, Germany, seeds and plants; H. E. Chitty, Paterson, N. J., new carnations; W. & J. Birkenhead, Sale, England, ferns and selaginellas; C. B. Strong & Co., Sacramento, Cal., seeds and plants; John Curwen, Jr., Villa Nova, Pa., chrysanthemums; H. F. Michell, Philadelphia, seeds; Storrs & Harrison Co., Painesville, O., seeds, plants and nursery stock; W. H. Spooner, Jamaica Plain, Mass., roses; Oscar H. Will, Bismarck, N. D., seeds; Moore & Simon, Philadelphia, seeds; J. Roscoe Fuller & Co., Floral Park, N. Y., seeds, bulbs and plants; J. M. Thorburn & Co., New York, seeds; Wm. G. McTear, Princeton, N. J., chrysanthemums; P. Lambert, Trier, Germany, roses; Dingee & Conard Co., West Grove, Pa., roses, hardy plants, bulbs and seeds.

UNIONTOWN, PA.—Stenson & Mc Grail is the name of a new florist firm here, doing business at 28 Millview street.



CAMPANULA LEAF-SPOT.

NEW ORLEANS.—Christmas trade was about the same as last year with retail prices somewhat lower. Supply was ample and quality better than last year. Increased call for violets.

PLYMOUTH, PA.—The wife of W. A. Pless, the florist, died recently of typhoid fever, aged 30.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant adva. not admitted under this head.

SITUATION WANTED—By a lady of experience in a flower store. Good references. Address A, care American Florist, Chicago.

SITUATION WANTED—By a good gardener and florist; married; German; 15 years' experience. Best of references. K D, care Am. Florist.

SITUATION WANTED—Cut flower arranger, charge of store; first-class designer and decorator, many years' experience. CAPABLE, care Am. Florist.

SITUATION WANTED—By a young man, in a private or commercial place; 8 years' experience. Good references. MILLER, 278 W. Ohio St., Chicago.

SITUATION WANTED—In good place as assistant; 8 years' experience; good references. J N, care Capt. Robinson, Hazelwood, Pittsburg, Pa.

SITUATION WANTED—By young man, 17, 3 years' experience; good home desired, wages not considered. ARTHUR BOGART or W. W. COLES, Kokomo, Ind.

SITUATION WANTED—By a young florist as assistant; sober, reliable and not afraid of work, good references; middle states preferred. Address S, care American Florist.

SITUATION WANTED—By February 1, as foreman in first-class commercial place; 11 years' experience; single. Address A. RASMUSSEN, 310 Liberty St., Warren, Pa.

SITUATION WANTED—By gardener, German, 43, married; experienced in all branches; private or commercial place; first-class references. G H, care American Florist.

SITUATION WANTED—By February as foreman by young man; 9 years' experience in roses, carnations, mums. East preferred. Address FLORIST P O, care American Florist.

SITUATION WANTED—As all round florist; good propagator, growing roses, carnations, chrysanthemums, palms, ferns, bulbs and general stock; single; 19 years' experience. I S, care American Florist.

SITUATION WANTED—By a single man; 9 years' experience; steady and sober; thoroughly understands growing roses and chrysanthemums. Capable of taking charge of commercial or wholesale. Address GROWER, care American Florist.

SITUATION WANTED—By a first-class cut flower grower and successful propagator; understands steam fitting, and not afraid of work. Refer to present employer. Address WORKER, care American Florist.

SITUATION WANTED—By rose grower, 6 years' experience, married, age 26; references John H. Dunlop, Toronto, Ont., and Alex. Montgomery, Waban Rose Co.'s, Natlick. State wages, etc. DAVID COOPER, Waban Rose Co.'s, Natlick, Mass.

SITUATION WANTED—By a competent man, Dutchman, age 27; single, 12 years' experience; special bulb grower, well up in Dutch, French and German correspondence, and some knowledge of bookkeeping; sober and reliable; best of references. Address MELROSE FLORAL CO., 24 S. 3d St., Harrisburg, Pa.

SITUATION WANTED—As foreman or headgardener; 14 years' experience—several in the nursery and seed lines. Married, no family; age 31 years. Been in present place nearly 4 years, but desire to change. When answering, please state terms. Address A FLORIST, care American Florist.

SITUATION WANTED—German, 33 years old and married, who has been foreman in large commercial places in this country for the last 8 years, seeks situation as such after Feb. 12th. Has had 7 years' European and 12 years' American experience. CHAS. JOHNSON, care H. B. Unger, 84 Communipaw Ave., Jersey City, N. J.

WANTED—A man who is well up in general greenhouse work as helper; state wages wanted. J. F. WILCOX, 1132 Pierce St., Council Bluffs, Ia.

WANTED—Catalogues and price lists of greenhouse material, boilers, glass, ventilating apparatus, etc. by ROBT. UNGER, Hanscom Park, Omaha, Neb.

WANTED AT ONCE—A young man as night fireman for greenhouse; one who has been used to steam boiler. State wages without bond. Must be sober and reliable. Address WM. KIRKHAM, Maywood, Ill.

WANTED—Foreman for large commercial place near eastern city; 50,000 square feet glass, mainly cut flowers. Liberal salary, house with all modern conveniences, and a permanent situation to a first-class party; a rose grower especially wanted. Address with full particulars and references COMMERCIAL, care American Florist.

WANTED—A man to take charge of a small place. Must be well up in roses, carnations and general greenhouse work. Wages \$20.00 per month and board, also a percentage on sales, which were \$2,500 last year, and can be increased largely by stirring, capable man to take charge. Place permanent and increase of salary to right man. Address W. H. WRIGHT, 204 1st East St., Vicksburg, Miss.

FOR SALE—Splendid florist store in Brooklyn, one of the best; owner going into other business. Address W. J. STEWART, Am. Florist, Boston, Mass.

FOR SALE—Dean combined stemm boiler and pump, 4-horse power, 1 1/2 inch suction, 1 1/2 inch discharge pipe, good repair. Cost new \$300, price \$150. Write for particulars. C. E. ALLEN, Brattleboro, Vt.

FOR SALE—Nursery 200-500 feet good land, 4 small greenhouses, also lathhouses, many thousands standard roses, leading varieties also tools, horse and wagon; lung lense; nursery near the cemetery; electric cars pass the place; will sell for \$300 cash. Address H. REISS, 257 12th St., Oakland, Cal.

FOR SALE CHEAP—Greenhouse, fifteen acres land, lease to run about three years (and can be renewed), a nice stock of berries of all kinds; greenhouse extra well stocked. Fifteen hundred feet hotbed sash and all necessary implements. Inquire J. D. LITTLE, Agent for Mrs. E. Wilson, Springfield, O.

TO RENT—Near a large Eastern city, an extensive place of 60,000 square feet of glass, now used for cut flowers and bedding plants. Rent moderate; modern dwelling house. To a first-rate grower liberal inducements will be made. Rent and three times its amount in flowers will be taken out by present owner. Address with fullest particulars ROSE GROWER, care American Florist.

FOR SALE CHEAP.

A few hundred strong HYDRANGEAS, out of 7 and 8-inch pots, 2 and 3 years old.

THOMAS HOGG and OTAKSA. Or will exchange for young Perle Roses.

CHAS. FRIEHL, Saginaw, E. S., Mich.

A BARGAIN.

Several hundred lengths of boiler tubing, as good as new for heating; 16, 15, 14 and 11 ft. lengths, 4-inch diameter. 8c. per ft. net on cars here. Also a lot of 3-inch, at 6c. per ft. net.

WM. A. WHITE, Staatsburgh, N. Y.

For Sale or Rent.

My greenhouse establishment on Belmont Ave. near Western Ave. The place consists of 48 lots or 236 feet front on Belmont Ave. by 700 ft. deep, 3 cottages, two two-story frame houses, 22 greenhouses from 10 to 200 feet in length and from 12 to 20 feet in width. The whole place can be bought or rented. Can also be divided, 24 lots with the greenhouses on it, and 24 lots with the other improvements on it. The place is in good order, and a large stock is on hand; is one of the farthest of the kind in Chicago. A good chance for some young man with some means, or for a corporation; and as I wish to retire from business, it can be had reasonable and on easy terms. If rented, a long lease can be given.

AUGUST DRESEL, Belmont and Western Aves., Chicago.

THE AMERICAN FLORIST

Subscription \$1.00 a Year. To Europe, \$2.00.

Advertisements, 10 Cents a Line, Agate;
Inch, \$1.40; Column, \$14.00.
Cash with Order.

No Special Position Guaranteed.

Discounts, 6 times, 5 per cent; 13 times, 10 per cent;
26 times, 20 per cent; 52 times, 30 per cent.
No reduction made for large space.

The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to those lines ONLY. Please to remember it.

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

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

Address THE AMERICAN FLORIST CO., Chicago.

THE BOOK OF THE ROSE, by the Rev. A. Foster-Meliar, Rector of Sproughton in Suffolk, England, is our latest accession to rose literature. Mr. Foster-Meliar writes entirely from an amateur's standpoint—that is, he treats on the cultivation of the rose for love, and not for money, and naturally his cultural methods are intended for the English climate, rather than ours. But the book is most agreeably written, and will be warmly welcomed by those interested in this flower. It contains 336 pages, is amply illustrated with half-tone plates, and the mechanical get-up is excellent. Even though the cultural details cannot be entirely followed in this country they will be found suggestively useful. (Published by Macmillan & Co., 56 5th avenue, New York. Price \$2.75).

SWEET SCENTED FLOWERS and Fragrant Leaves is the title of a book by Donald McDonald, with an introduction by Mr. W. Robinson of the London Garden. It is a handsomely printed book with sixteen very beautiful colored plates. It contains an historical sketch of flower perfumes, and a copious alphabetical list of plants valued for their fragrance, with both common and botanical names. This list seems to be unique; it is certainly very interesting, and gives odd bits of information we do not often meet with. The book is a very attractive one to all lovers of fragrant flowers. (Sampson Low, Marston & Co., London, publishers).

MR. LOUIS MENAND has published a pamphlet containing matter supplementary to his autobiography and has kindly sent us a copy. Like all of Mr. Menand's writings it is very interesting, and it is pleasant to know that this veteran in the trade is still hale and hearty. He wields his pen as vigorously as ever and those who have read his autobiography will be much interested in the supplement now published.

WISCONSIN FLOWER EXCHANGE,
WHOLESALE
CUT FLOWERS,
468 MILWAUKEE STREET,
MILWAUKEE, WIS.

The Boston Flower Market

is prepared to purchase, on order, and ship Trade orders for Cut Flowers at prices ruling in the market on day of sale. TERMS STRICTLY CASH.
Address **JOHN WALSH, MANAGER,**
Flower Market, Park St., BOSTON, MASS.
Mention American Florist.

ELLIS & POLLWORTH,
Wholesale Cut Flower Growers' Agents,
AND DEALERS IN FLORISTS' SUPPLIES.

Introducers of the NEW
SCARLET CARNATION "LIZZIE GILBERT."

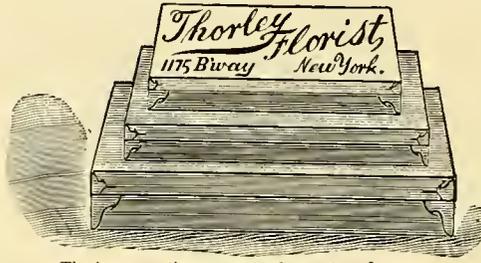
Is an early bloomer.
Is a continuous bloomer.
Has good length stems.
Is as productive in bloom as Silver Spray.

Is a good keeper and a good shipper.
HAS BEEN TESTED FOUR YEARS.
Is more intensely scarlet than Portia.
Its flower is four times as large as Portia.

PRICE FOR ROOTED CUTTINGS:

\$80.00 per 1000; \$10.00 per 100. 250 at thousand rates; 25 at hundred rates.

ELLIS & POLLWORTH, Box 75, Milwaukee, Wis.
L. L. LAMBORN, Sr., Sole Eastern Agent for sale of "LIZZIE GILBERT."

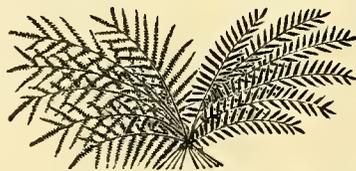


The boxes as they appear when set up for use.

We make them in a sufficient number of sizes, including for violets, to meet all necessary requirements.

THE NATIONAL FOLDING BOX & PAPER CO.,

NEW YORK SALESROOM: 132 & 134 Franklin Street. 315--325 Congress Ave., NEW HAVEN, CONN.



Hardy Cut Ferns,

BOUQUET GREEN,

Laurel and Green Festooning, Wreaths, Etc.
SPHAGNUM MOSS IN ANY QUANTITY.

H. E. HARTFORD, 18 Chapman Place, BOSTON.



Made from Water-proofed, Double Manilla lined, Strawboard. Shipped flat, packed 100 in a crate.

CHICAGO FOLDING BOX CO.,
Jackson & Clinton Sts., CHICAGO.
TELEPHONE MAIN 4718.

FOLDING
PAPER
BOXES
for CUT
Flowers.

Z. DeForest Ely & Co.,
WHOLESALE COMMISSION
DEALERS IN
CUT FLOWERS.

Roses, Carnations, Chrysanthemums,
Valley, Violets, etc.
1024 Market Street, PHILADELPHIA, PA.
Mention American Florist.

SAMUEL S. PENNOCK,
Wholesale Florist
REAR OF 42 S. 16th STREET,
Philadelphia, Pa.

CUT SMILAX.

15 Cents per String.

Elegant Stock Now Ready.

THE NATIONAL PLANT CO.,
Dayton, Ohio.

Cycas Leaves. FRESH CUT
each 75c.

VAUGHAN'S SEED STORE, P. O. Box 688, Chicago.

H. L. SUNDERBRUGH,
Wholesale Florist
4TH AND WALNUT STREETS,
Cincinnati, O.

Asparagus Plumosus Nanus.

Cut Strings, 8 to 10 feet long,

50 CENTS.

W. H. ELLIOTT, Brighton, Mass.

DAN'L B. LONG,
WHOLESALE CUT FLOWERS,
495 Washington St., BUFFALO, N. Y.

SHIPPING ORDERS CAREFULLY ATTENDED TO.
OTHER SPECIALTIES:
Florists' Supplies, Wire Designs, Bulbs,
Long's Florists Photographs.
Catalogues, Lists, Terms, etc., on application.

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WHOLESALE
Cut Flowers & Florists' Supplies
WIRE DESIGNS.
1402 PINE STREET,
St. Louis, Mo.

C. A. KUEHN,
(Successor to ELLISON & KUEHN),
WHOLESALE
FLORIST,
1122 PINE STREET,
St. Louis, Mo.
A complete line of Wire Designs.

E. H. HUNT,
WHOLESALE FLORIST
 68 Lake Street, CHICAGO.
WHOLESALE CUT FLOWERS.
SEEDS, BULBS AND ALL
FLORISTS' SUPPLIES.

Western Agent for the GREAT ANTIPEST.

KENNICOTT BROS. CO.
WHOLESALE CUT FLOWERS,
 and **FLORISTS' SUPPLIES.**
 34 & 36 RANDOLPH STREET,
CHICAGO.

T. J. CORBREY,
Wholesale Commission Florist,
 64 & 66 Wabash Ave., CHICAGO.

If you want First-Class Flowers, properly packed and delivered on time, send me your orders and you will get what you want.

J. B. DEAMUD & CO.
WHOLESALE CUT FLOWERS,
 34 & 36 Randolph Street,
 PHONE MAIN 223. **CHICAGO.**
 HEADQUARTERS FOR AMERICAN BEAUTIES.

Reinberg Bros.
WHOLESALE CUT FLOWERS,
 51 WABASH AVENUE,
 Telephone Main 4937. **CHICAGO.**
 Our Roses best them all, in quality.
 Headquarters for fine American Beauties.

NILES CENTER FLORAL CO.
 WHOLESALE GROWERS OF
CUT FLOWERS OF ALL KINDS
 SHIPPING ORDERS will receive our special attention. Send us a trial order.
 59 WABASH AVENUE,
 Consignments solicited. **CHICAGO.**

ROGERS PARK FLORAL GO.,
 Wholesale Growers of
CUT FLOWERS,
 41 WABASH AVENUE,
CHICAGO.

We are prepared to fill your orders with first-class flowers. Give us a trial order.

WELCH BROS.,
Wholesale Florists,
 NO. 2 BEACON STREET,
 Near Tremont St., **BOSTON, MASS.**

Michael A. Hart,
Wholesale Commission Florist.
 ALL STOCK IN FINEST GRADES.
 113 W. 30th St., NEW YORK.
 Telephone Call 1307 38th St.

Mention the American Florist when writing to advertisers on this page.

Wholesale Markets.

Cut Flowers.

NEW YORK, Jan. 15.

Roses, Bon Silene, Niphotos.....	2.00@ 3.00
" Perle.....	2.00@ 3.00
" Mermet, Hoste, Cusin.....	2.00@ 4.00
" Bride, Watteville, Bridesmaid.....	3.00@ 6.00
" La France.....	6.00@ 10.00
" Testout.....	6.00@ 10.00
" Meteor.....	6.00@ 10.00
" Beauty.....	5.00@ 75.00
" " seconds.....	5.00@ 25.00
" Hybrids.....	10.00@ 25.00
Carnations.....	.75@ 1.00
fancy.....	1.50@ 2.00
Violets.....	.50@ 1.00
Valley.....	3.00@ 4.00
Narcissus.....	3.00@ 4.00
Tulips.....	2.00@ 4.00
Hyacinths.....	1.00@ 2.00
Harrisl lilies.....	8.00@ 10.00
Mignouette.....	6.00@ 25.00
Cattleyas.....	35.00@ 40.00
Cypripediums.....	10.00@ 12.00
Smilax.....	12.00@ 15.00
Lilac, per bunch.....	1.00

BOSTON, Jan. 15.

Roses, extra selected.....	8.00@ 10.00
" Mermets, Brides.....	4.00@ 6.00
" Niphotos, Perle.....	3.00@ 4.00
" Bon Silene, Gontier.....	1.50@ 2.00
" Bridesmaid, Testout.....	4.00@ 6.00
" Meteor.....	6.00@ 12.00
" Beauty.....	25.00@ 75.00
" Hybrids.....	15.00@ 50.00
Carnations.....	1.00@ 1.50
fancy.....	2.00@ 2.50
Valley.....	2.00@ 4.00
Hyacinths, freesia.....	1.00@ 2.00
Narcissus.....	4.00@ 5.00
Tulips.....	2.00@ 4.00
Harrisl, callas.....	10.00@ 12.00
Violets.....	.75@ 1.00

PHILADELPHIA, Jan. 15.

Roses, small.....	3.00@ 6.00
" large teas.....	5.00@ 10.00
" extra select.....	12.00@ 15.00
" Beauties.....	35.00@ 50.00
" Brunners.....	60.00@ 75.00
Carnations.....	2.00@ 3.00
Smilax.....	12.00@ 15.00
Asparagus.....	35.00@ 50.00
Violets, double.....	1.50@ 2.00
single, per 100 bunches.....	\$4@ \$5.
Valley.....	4.00
Cattleyas.....	40.00@ 50.00
Cypripediums.....	15.00@ 20.00
Smilax.....	12.00@ 15.00

CHICAGO, Jan. 17.

Roses, Beauty, selected.....	25.00@ 40.00
" Testout, Bridesmaids.....	5.00@ 7.00
" Meteor, La France, Albany.....	4.00@ 6.00
" Bride, Mermets.....	4.00@ 6.00
" Perle, Niphotos, Gontier.....	2.00@ 3.00
" Mixed.....	3.00@ 4.00
Carnations, long common.....	1.50@ 2.00
" fancy.....	2.00@ 4.00
short.....	1.00
Valley.....	3.00@ 4.00
Romans.....	3.00@ 4.00
Violets.....	1.00@ 1.50
Harrisl.....	12.00@ 18.00
Mignouette.....	1.00@ 4.00
Orchids, cattleyas.....	50.00
cypripediums.....	25.00
Smilax.....	12.00@ 15.00
Freesia.....	3.00@ 4.00
BUFFALO, Jan. 16.	
Roses, Beauties.....	20.00@ 40.00
" Mermet, Bride.....	7.00@ 10.00
" Bridesmaid.....	7.00@ 10.00
" Meteor.....	7.00@ 10.00
" Perles, Hoste, Cusin.....	4.00@ 6.00
Callas, Harrisl.....	10.00@ 12.00
Carnations, long.....	1.50@ 2.00
" short.....	1.00
" Daybreak.....	2.00@ 2.50
Valley.....	4.00
Narcissus, Romans.....	3.00
Violets.....	1.00@ 1.25
Tulips.....	3.00

GEORGE A. SUTHERLAND,
 Successor to PECK & SUTHERLAND,
 Successors to WM. J. STEWART.
Cut Flowers AND Florists' Supplies
WHOLESALE.
 67 Bromfield St., BOSTON, MASS.
 New England Agent for the GREAT ANTIPEST.

WHOLESALE FLORISTS
 JOBBERS IN
 FLORISTS'
 SUPPLIES,
 METS, FLORISTS'
 BRIDES, VASES.
 GONTIERS,
 CARNATIONS,
 ALWAYS ON HAND.
 1 Music Hall Place,
 BOSTON, MASS.
 HORTICULTURAL AUCTIONEERS.

THE LEADING FAVORITES:

American Beauty,
Bridesmaid,
Meteor,
Testout,
 And all other desirable roses, grown especially for first-class trade.

BURNS & RAYNOR,
 Wholesale Florists,
 49 West 28th St., NEW YORK.

THOS. YOUNG, Jr.,
Cut Flowers,
WHOLESALE,
 43 W. 28th St., NEW YORK.

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FLORIST,
 32 West 30th Street, NEW YORK.

Roses Shipped to all points. Price list on application.
Edward C. Horan,
 34 W. 29th Street, NEW YORK,
WHOLESALE • FLORIST.

Careful Shipping to all parts of the country.
 Price list on application.
JAMES PURDY,
 WHOLESALE DEALER IN
CUT FLOWERS,
 57 W. 30th St., NEW YORK.

JOHN YOUNG,
FINE ROSES
 WHOLESALE,
 53 West 30th St., NEW YORK.

THEO. ROEHR'S,
 WHOLESALE
FLORIST,
 111 WEST 30TH STREET,
 NEW YORK CITY.
 Established 1879. . . .

FRANK MILLANG,
WHOLESALE FLORIST
 408 East 34th Street,
 Cut Flower Exchange, NEW YORK.
 ESTABLISHED 1884.

☪ The Seed Trade.

AM. SEED TRADE ASSOCIATION.

D. I. BUSHNELL, St. Louis, president; S. E. BRIGGS, Toronto, 1st vice-president; A. L. DOW, 114 Chambers street, New York, secretary and treasurer.

NEW YORK.—In town: T. V. Maxon, pea grower, Adams, N. Y.

MOODY BROS., seedsmen, Youngstown, O., made an assignment January 9.

MR. JEROME B. RICE is president of the Electric City National Bank at Niagara Fall, N. Y.

THE Harnden Seed Co., Kansas City, Mo., have re-leased their old quarters for a term of years and will commence building a three-story brick addition February 1.

GEO. S. GREEN of Chicago has disposed of his field seed business to the Albert Dickinson Co. and will remove temporarily to New Mexico, where he seeks a different climate because of the poor health of Mrs. Green.

American Seeds Abroad.

ENGLISH PAPERS CHARGE THAT MUCH OF THE CLOVER SEED IS ADULTERATED.

WASHINGTON, January 5.—The American Consul at Newcastle-on-Tyne has called the attention of the State Department to a notice published in influential English journals calculated to discredit the character of American seeds abroad, and to lessen the market for one of our important exports. The article referred to, which is headed "Seeds or Weeds?" declares, as very large quantities of American clover seed find the way into Europe, attention ought to be very forcibly directed to the results of a very exhaustive investigation made recently by the Ontario Agricultural Station, which confirms those of several other experiment stations in the United States.

To say nothing of Canadian exports, the United States exported in the first nine months of 1894 over 13,060,000 pounds of clover seed, at a value of about 10 cents per pound. This, and also much of that sold generally in North America, is described as "one of the most impure seeds now on the market." The examination showed that in cleaned alsike there was no less than 9 per cent. of weed seeds, chiefly sorrel, while in red clover there was 6 per cent.

In the case of alsike this means that in every half ounce of seed there were no less than 1,800 weeds, and in the six pounds used for an acre of land no less than 700,000 weeds. This is not the whole exposure, for it was found that some of the more unscrupulous seedsmen make a practice of grinding up quartz, drying, sifting, and dyeing it, and then mixing it with clover seed. Nearly all the stations that have investigated the subject join in warning American and Canadian farmers to beware of low priced seeds, to deal with none but respectable and responsible merchants, and to have samples of their seeds tested and examined at an experiment station before sowing. With the exports from America indicated above, the farmers of the United Kingdom are warned that they ought to be equally careful in their purchases of clover or any other seeds from America.

Referring to the paragraph from the daily press Geo. C. Watson of Philadelphia, says: "The allegations of impurity are possibly true enough, but what of it? The seed merchants of Great Britain buy by sample and nobody ever accused them of not having their eyes peeled. If they buy impure seeds from the U. S. they pay accordingly. But as a matter of fact the standard of purity both in America and Europe is much higher to-day than ever before, and there is more choice, pure seeds exported from America to-day than was possible before the improved recleaning machinery was put in. The animus of the complaint is clearly indicated in the concluding sentence where although the allegations were against clover only, the liberty is taken of warning the public against 'any other seeds from America.'"

Mr. Chas. Heath, with The Albert Dickinson Co., Chicago, says: "With regard to purity of American seeds the

seed-producing sections of this country grow a quality of seed which will compare in purity with that of any seed-producing section of any country. Our territory being new, many of the perennial weeds of European countries are not found here. In addition to this, modern inventions have given us machinery which excels any other, and we are able to turn out seed practically free from all foul seeds. Home grown seeds in the U. S. as well as countries on the continent sell for more than American seeds, but one of the largest houses in the American seed trade knows for a fact that American grown seeds are mixed in these countries with home grown, and sold for the latter. The reason for this is obvious, and it is no doubt true that dealers in these countries are led to make these statements with regard to quality of American seed from pecuniary motives."

Seedsmen, Reliable and Otherwise.

T. Greiner in Farm and Fireside.

A "grumbler" sends me a letter full of complaints about the way a certain seed dealer praises his seeds and tries to induce people to buy them, and how prominent writers help the matter along by their indorsements and recommendations. "The fraudulent schemes of seed-sellers," he says, "are a crying evil, which should be abated rather than abetted by standard and admired contributors to our farm papers. My experience with seedsmen has been largely of the green-goods style of business. Rarely one of the boasted qualities of a variety offered at an extortionate price materializes in the crop. The novelty departments of seed catalogues are enough to convince a gray-head that the fear of the devil no longer finds lodgment in the seed shark's breast."

This is pretty strong language. While it may be deserved in some cases, however, I think it is going too far to apply it to seedsmen as a class. We should bear in mind that seedsmen and nurserymen are merchants like other merchants. Why should we expect them to stand on a much higher plane of business morality and business honesty and integrity than grocers, druggists, hardware or clothing dealers? Like all the rest of businessmen, they are in the business for the profits that are in it. Competition is close. To make the business pay, it has to be managed with skill and shrewdness. For every man who gets rich by seed selling, there are a number who make a financial failure of it. To sell seeds is and must be the chief aim of the seedsman, as it is the chief aim of the groceryman to sell groceries.

In fact, to *sell goods* is the great problem, and a matter of existence to them as business men. Let us go into a store to buy some dry goods. The merchant will show us piece after piece, pointing out the good qualities of each as he goes along. When he notices you do not like a certain piece and are not likely to buy it, he will tell you of its imperfections, and show you another which in this or that respect is far better. But he will not often tell you the *faults* of a piece of goods so long as he thinks you might want to buy it.

Do you expect the seedsman to do differently? Would it be "business" to tell you the faults and imperfections of the articles he sells? He might as well make an assignment, or quit business at once. When you go into a store to buy, you expect to use your own eyes and your own judgment in the selection of goods, instead of relying solely on the merchant's representations. If your judgment tells you

that the coat is worth the price you are asked for it, you take it; otherwise, not.

In buying seeds and nursery stock, we can just as well rely a little on our own judgment and discretion as in buying groceries and dry goods. If an agent comes along and offers us cherry trees that will bear a full crop the second year after planting, or cherries as large as pumpkins, or strawberry trees that will have a bushel of berries the next year, and a bowl each of cream and sugar besides, we would simply kick him out of the house.

When I see the pictures of mammoth fruits, of tree blackberries, the descriptions of luscious strawberries that will bear *immediately* after being set out, the melons as big as a wheelbarrow, then I say, "Methinks thou promiseth too much." We must judge by the whole tone of the catalogue, by the pictures and the descriptions, whether the dealer is trustworthy and reliable or not.

Unfortunately, many people like to be humbugged; they would not be content without it. This is a truth so long and generally recognized that it was proverbial among the old Romans long before Christ's time. *Mundus vult decipi*—the world likes to be swindled. So long as there are people looking for and willing to be enticed by the charms of overdrawn pictures and descriptions in seed catalogues, so long will seedsmen furnish them. The only way that these exaggerations can be done away with, is to get people in the habit of considering them as a sure sign of unreliability of the dealer, and thus to make them unprofitable.

I myself would fight the evil on other grounds. I would appeal to the good sense and good taste of the catalogue makers. Many of them incur a heavy expense just for the sake of filling the pages of catalogues with meaningless pictures. These picture-overloaded pages are not pretty, and I believe they are not as effective as plainer pages with an occasional original, tasty illustration of some really good novelty would be. The catalogue cuts are now mostly (derisively) called "stock cuts." A first-class agricultural paper would not admit them to its columns. They are the product of wild fancy, not the representation of a natural product; consequently, they are not attractive, not pretty, and fill no place except filling space. A few of our seedsmen now give plain reading matter, enlivened now and then with a photo-engraving. These catalogues are pleasing, because they represent nature and truth.

And I do not think their makers have ever lost a customer by leaving out that surplus of commonplace, unnatural pictures. Let good taste prevail. I believe some catalogues cut down to one-half of their size, saving one-half of their cost and a large amount in postage, would have the same effect as when overburdened with meaningless pictures, if not more. I simply offer these remarks as suggestions. Seedsmen may pay attention to them, or not. I shall feel free to criticize shortcomings of this kind whenever I see them, and to offer suggestions whenever I think they might be of service. But why should I or anybody else grumble because they will not do just as we think they should? We must understand that this is a world of imperfections. None of us are without fault, and the world moves on just the same.

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

Sweet Peas.

BLANCHE FERRY	per lb. \$.60
BUTTERFLY	" .60
PRINCESS BEATRICE	" 1.00
ALBA MAGNIFICA	" 1.00
MRS. SANKEY	" 1.50
EMILY HENDERSON	" 1.50
ISA ECKFORD	" .75

GLOXINIA BULBS. Splendid French mixture, per 100, \$7.00.

OUR SPECIAL LIST OF FLOWER AND VEGETABLE SEEDS is now ready and may be had on application.

CHAS. SCHWAKE,
404 East 34th Street, NEW YORK.

Cox Seed & Plant Co.

SAN FRANCISCO, CAL.,

Seed Growers AND NURSERYMEN.

Contract Price List on application.

Florists' Seeds

in the choicest strains, and Spring bulbs quoted in our new Trade List for 1895, now ready and mailed free on application.

Address **August Rölker & Sons,**
P. O. Station E, NEW YORK.
When writing mention the AMERICAN FLORIST.



Gardiner's Celebrated English Mushroom Spawn.
Fresh and Reliable.
\$7 per 100 lbs.
Special price on larger quantities.
John Gardiner & Co.,
Philadelphia, Pa.

ROOTED CUTTINGS

Geraniums all Selected Standard Bedders.

Ten varieties, largely semi-double Scarlet Brant, sold in assortment only, \$12.00 per 1000 all labeled; \$1.50 per 100. Single scarlets at \$1.25 per 100, or \$9.00 per 1000.
Verbena, large collection of fine bright colors, all robust growers, \$1.00 per 100, or \$7.50 per 1000.
Coleus, twenty best bedders, plenty of red and yellow, \$6.00.
Heliotrope, finest blue and white, at \$1.25 per 100.
ALBERT M. HERR, L. B. 496, LANCASTER, PA.

Tuberous Begonias

(Griffin's Strain)

Medal awarded World's Fair. Finest Strain in the World.
SEED, choicest single & double 50c & \$1 each trade pkt.
BULBS, single varieties, from \$1.00 per 100. double " " 10.00 per 100.
Special prices on large quantities. Send for Descriptive Illustrated Catalogue.
OASIS NURSERY CO., Woodbury Station, L. I., N. Y.

FINEST

Double Petunia Seed

IN THE WORLD. 50 cts. per 1000.

G. A. McTAVISH, Victoria, B. C.

FOR DECORATING.

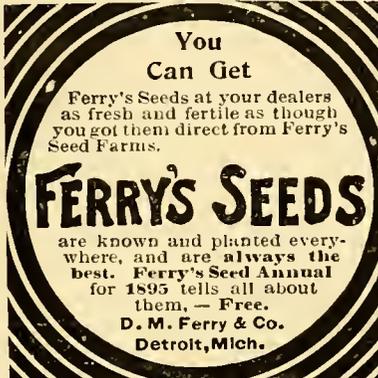
LAUREL WREATHING, fine quality, hand-made \$3.50 per 100 yds. Also WILSON EARLY BLACK-BERRY PLANTS, \$3.10 per 1000.
OLIVER L. TRONNEM, Vineland, N. J.

FOR THE SEED TRADE

ONION SETS, SWEET PEAS

AND A GENERAL LINE OF FLOWER SEEDS, GARDEN TOOLS, ETC.

THE BROWN BAG-FILLING MACHINE CO., MANUFACTURERS OF AUTOMATIC MACHINES FOR PUTTING UP SEEDS, FITCHBURG, MASS.



You Can Get
Ferry's Seeds at your dealers as fresh and fertile as though you got them direct from Ferry's Seed Farms.
FERRY'S SEEDS
are known and planted everywhere, and are always the best. Ferry's Seed Annual for 1895 tells all about them. — Free.
D. M. Ferry & Co.
Detroit, Mich.

Michel Plant and Bulb Co., WHOLESALE FLORISTS.

ST. LOUIS, MO.

Mention American Florist.

WE SELL SEEDS

Florists' Flower Seeds and Sweet Peas a specialty. Highest quality. Special prices

WEEBER & DON,

Seed Merchants and Growers.

114 Chambers Street, NEW YORK.

SOMETHING OF INTEREST

TO

Market Gardeners and Truckers

to be had for the asking. Write now for it.

Address **JOHNSON & STOKES, Seedsmen,**
217 & 219 Market St., Philadelphia, Pa.

Stock plants Verbenas, first-class colors, \$2 per 100
Stock plants Buttercup Carnations, fine plants, 6 to 8 cts.
Gladolus, mixed, light shades predominate, \$1 per 100. Small bulbs of above for florists' growing.
McCREA & COLE, Battle Creek, Mich.

VERBENAS

Transplanted Cuttings \$8 per 1000; \$1 per 100.
Rooted, \$6 per 1000. Plants, \$2 per 100. All clean and true to color. Satisfaction guaranteed, and safe arrival.

W. B. WOODRUFF, Florist, Westfield, N. J.

Send for a Copy

OF OUR

TRADE DIRECTORY

AND REFERENCE BOOK.

PRICE \$2.00.

AMERICAN FLORIST CO.,

P. O. Drawer 164.

CHICAGO, ILL.

Vaughan's Seed Store,
New York: 26 Barclay Street.
CHICAGO: 146-48 W. Washington St.

FLOWER SEEDS.

NEW CROP AND CHOICEST STRAIN.

SWEET ALYSSUM, oz. 10c.	Trd. Pkt. 10c
ASTER, in variety and separate colors	25c
CENTAUREA CANDIDISSIMA	25c
GYMNOCARPA	15c
CYCLAMEN, large flowering, white, dark red, light red, mixed	50c
LOBELIA, CRYSTAL PALACE COMPACTA and other varieties	25c
MIGNONETTE, MACHET, oz. 50c.	10c
VERBENA, Mam. mixed and separate colors	25c
SWEET PEAS. Named sorts. (Send for list.)	

Send address for our Annual Catalogue and Special Gardeners' List of Vegetable Seeds; ready early in January.

W. W. BARNARD & CO.,

Store, 10 N. Clark St. CHICAGO.
Warehouse and Office, 186 E. Kinzie St.,

CHOICE

FLOWER SEEDS FOR FLORISTS

Our Specialty.

Fresh seed just arrived. New crop Sweet Peas just received.

Price List for florists free on application.

HERRMANN'S SEED STORE,

413 EAST 34TH STREET,

Near Long Island Ferry, NEW YORK.



FROM JAPAN. — Bulbs, Seeds, Trees, Palms, Etc.
FROM AUSTRALIA. — Araucarias, Palm Seeds, Etc.
FROM CALIFORNIA. — Bulbs, Seeds, Trees, Etc.

Orders booked up to Dec. 1 for Cycas Revoluta Stems. Send for our new and interesting Catalogue '94-'95.

H. H. BERGER & CO.,

(Established 1878.) SAN FRANCISCO, CAL.
Oldest and most reliable import house.

BULBS.

Hulsebosch Bros.

ENGLEWOOD, N. J.

SELL ALL KINDS CHEAP.

Mention American Florist.

SEEDS

Of all kinds, true to name and fresh.

Jos. F. Dickmann,

1110 N. Third St., and Gravois and Oregon Ave.,
Send for my New Catalogue, FREE. ST. LOUIS, Mo.

EXTRA CHOICE FLOWER SEEDS.

List free on application.

FRED. ROEMER, SEED GROWER,
QUEDLINBURG, GERMANY.

PALMS ARE INCREASING IN FAVOR with the people but they need coaxing to buy. Our prices are "coaxing" so yours can be. Send us \$3 for 17 3/4 & 4-in., or \$5 for 24 of assorted varieties such as Latania, Kentia, Elegan, Excelsa, etc. Shipped safely NOW. Catalogue free. **WILLIAMS & SONS CO., Batavia, Ill.**

News Notes.

CHESTER, PA.—Shaw Bros. have begun the erection of three large greenhouses on the corner of 13th and Crosby streets.

ELIZABETH, N. J.—Decrease of about 10%. Retail prices same as last year. Supply short. Quality somewhat better. Increased call for carnations.

TOLEDO, O.—Christmas trade was about the same as last year, with retail prices about 15% lower. Supply very nearly equal to demand. Quality improved.

WEST TROY, N. Y.—Isaac Gillet added the past summer a new carnation house containing 2,200 feet of glass, and is making arrangements to build another one in the spring.

SYRACUSE, N. Y.—Christmas trade was an increase of about 20% over last year. Prices about the same. Plenty of flowers and of fine quality. Increased demand for carnations and violets, and pot plants.

HAMILTON, ONT.—Christmas trade was about double that of last year. Retail prices higher. Supply short. Quality hardly so good as last year. Increased call for carnations, flowering plants and pans of ferns.

ALBANY, N. Y.—Volume of Christmas trade and retail prices were about same as last year. Supply good. Quality better. Increased call for violets. High priced roses not much called for. Double the sale of holly and holly wreaths.

DENVER, COL. Probably total Christmas sales were larger than last year as each firm did about the usual amount of business and there are one-third more stores. Retail prices much higher. Supply short. Quality not up to standard.

SAVANNAH, GA.—Christmas trade was considerably larger than last year, the increase being mainly in sales of decorative plants. Retail prices ruled the same as last year. Supply of flowers was sufficient. Roses were better in quality owing to clear weather.

EVANSVILLE, IND.—The Evansville Florist Club has been organized. J. D. Carmody is president and J. A. Howsley secretary. At the next meeting, to be held January 17, there will be a discussion upon the cultivation of chrysanthemums and a paper upon another subject will be read by Mr. Wm. Blackman.

SPRINGFIELD, ILL.—Christmas trade was about same as last year. Supply short. Quality hardly so good as last year. Main call was for roses, carnations and violets. Good demand for plants. It, instead of doubling prices at Christmas, florists in general would advance prices gradually from December 1 it would make things easier. This is probably not felt so much in large cities where they get good prices during all of December.

MONTREAL.—Christmas trade was somewhat larger than last year. Retail prices were about the same. Supply equal to demand. Quality rather better. Increased demand for carnations and violets. Less cash and more credit than last year. Messrs. W. B. Davidson & Sons made a huge wreath 7 by 6 feet for the funeral of the late Premier on the order of the members of the Dominion cabinet, of the choicest flowers obtainable, and the price is said to have been \$3,500.

WE ARE HEADQUARTERS

for all the leading NOVELTIES of merit. We have also ready for delivery a fine stock of the leading varieties of CHRYS-ANTHEMUMS from 2-inch pots, prices of which will be furnished on application.

We offer a fine stock of the following, and solicit early orders:

- | | |
|--|---|
| STROBILANTHES DYERIANUS, 3-inch pots. | ADIANTUM FARLEYENSE, 4-inch pots. |
| ASPARAGUS PLUMOSUS, 3, 4 and 5-inch pots. | NEPHROLEPIS EXALTATA PLUMOSA, 3, 4 and 5-inch pots. |
| FICUS ELASTICA, 5 and 6-inch pots. | ADIANTUM CUNEATUM, 2-inch pots. |
| ARECA LUTESCENS, 6-inch pots. | DRACAENAS in variety, 4, 5 and 6-inch pots. |
| KENTIA FORSTERIANA, 3, 4, 5 and 6-inch pots. | CYCAS REVOLUTA, all sizes. |
| PTERIS SMITHIANA, 4, 5 and 6-inch pots. | |

PITCHER & MANDA (Inc.) Short Hills, N. J.

100,000 VERBENAS. THE CHOICEST VARIETIES IN CULTIVATION

Fine pot plants, \$2.50 per 100; \$20.00 per 1000. Rooted Cuttings, \$1.00 per 100; \$8.00 per 1000.

NO RUST OR MILDEW.

PACKED LIGHT, AND SATISFACTION GUARANTEED. SEND FOR CIRCULAR. We are the Largest Growers of Verbenas in the country. Our plants cannot be surpassed.

J. L. DILLON, Bloomsburg, Pa.

FOR SALE.

	Per 100	Per 1000
Cinnamon Vine, 1 year	\$ 2.00	
Hardy Moonflower	3.50	\$25.00
Wistaria Magnifica, 1 to 2 feet	2.00	18.00
Achillea, The Pearl, open ground roots	3.00	
Coreopsis lanceolata	3.00	
Euhalia Uniflora, 1 year clumps	6.00	
Hibiscus Crimson Eye, 2 years	4.00	
Hyacinthus Candicans, 2 years	1.00	8.00
Hemerocallis, double, 2 years, strong	2.00	12.00
" Flava (Yellow Day Lily), 2 years	4.00	
Iris Kaempferi, fine sorts, mixed	3.00	
" German, in 12 fine, named sorts	6.00	
Lily Elegans, large orange red flowers, free flowering	4.00	
Lily, Double Tiger No. 1	3.00	20.00
Montbretias, in 4 fine named kinds	5.00	
Paeonies, 20 choice named kinds, good roots	10.00	
Yucca Filamentosa, 3 years	4.00	
Cannas, fine mixed sorts	3.00	
Cooperia Pedunculata, string bulbs 2 year seedlings, blooming size	1.00	
Dahlia, mixed sorts, good eyes	3.00	
Gladiolus 50 fine named kinds, Gandavensis type	4.00	
Gladiolus, mixed, light colors	1.50	10.00
" Lemoine's Hybrids, in 20 fine named sorts	2.00	12.00
Gladiolus, Lemoine's Hybrids, in 20 fine named sorts, second size, blooming bulbs	1.00	8.00
Gladiolus, Lemoine's Hybrid, fine mixture, 1st size	1.00	8.00
Gladiolus Sandersoni, one of the finest, scarlet	10.00	
Gladiolus Childsii, or Max Lechtlin's Hybrids	10.00	
Gladiolus Draecolosa, 1st bulbs	5.00	
Oxalis, summer flowering, 4 distinct colors mixed, fine sorts	.25	2.00
Oxalis, summer flowering, 2 sorts, white and purple		1.00
Richardia Alba Maculata, bulbs near 1 inch diameter	4.00	
Trichonia 4 variety, 1st bulbs	3.00	
Ipomoea Panchita, Mexican Morning Glory, from pots	2.50	20.00
Agaves, Cerens, Opuntias, Smaeviera, Phyllocaetus, Stapelia, etc., etc., assorted by us	5.00	40.00

Address E. Y. TEAS, Manager, IRVINGTON, Marion Co., IND. Mention American Florist.

NOW is the time to plant VERBENA SEEDS

The progressive kind will meet your needs, And make a grand sensation; 'Tis the kind that spans the silver half And makes progressive Florists laugh, And saves them much vexation.

New crop now ready. None but the best XXX seed offered. Will produce some grand novelties. We've had flowers 1 1/4 inches across. First Premium at Mt. Holly Fair this year. 1/2 oz 100; 1/4 oz 31; 1/16 pkt. 100.

1st and hybridized Double Petunias, Dreer's; none better. 500 seeds 60c; 1000 seeds \$1.00.

Single fringed, Dreer's and California Giant blended, saved from the most magnificent showy varieties in cultivation. 500 seeds 30c; 1000 seeds 50c.

Dwarf French Gold striped Marigold, makes nice pot plants for spring sales. Trade pkt. 2c.

Dwarf Marigold Carnation, all saved from fine double flowers. Trade pkt. 25c. Lots of other good things. Novelty price list, free to all. Cash with order please. Address

J. C. GIBSON, WOODBURY, N. J.

Clematis Jackmanni.

One year, nice dormant stock, for potting up for Spring sales, \$2.00 per dozen; \$12.00 per 100. All home grown. F. A. BALLER, Bloomington, Ill.

The "Big Four"

CARNATIONS:

WM. SCOTT.
ALBERTINI.
DAYBREAK.
MCGOWAN.

Grow the "Big Four" And Get "On Top."

Priced: Per 100	Per 1000	
Scott	\$3.00	\$25.00
Albertini	3.00	25.00
Daybreak	2.50	20.00
McGowan	2.00	15.00

Selected, Healthy, well Rooted Cuttings.

Terms Cash with Order or before Shipment. If wanted C. O. D. remit one-third.

ALEX. McBRIDE, ALPLAUS, N. Y.

CARNATIONS.

Rooted Cuttings. No disease. Stock true to name. Sample Free.

Daybreak, Tidal Wave, \$2.00 per 100; \$16.00 per 1000
Silver Spray, McGowan, 1.75 per 100; 12.00 per 1000
Helen Keller, 6.00 per 100; 50.00 per 1000

LAKE GENEVA FLORAL CO., LAKE GENEVA, WIS.

CARNATIONS.

ROOTED CUTTINGS.

Will take orders until April 1st.
Helen Keller, Bouton d'Or, \$5.00 per 100
Wm. Scott, Albertini, Mrs. Reynolds, 20.00 per 1000
Daybreak, Wabash, Richmond, 15.00 per 1000
McGowan, Puritan, Portia, G. Wilder 12.00 per 1000
Tidal Wave, S. Spray, White Wings, 10.00 per 1000

A. T. JACKSON, Station X, CHICAGO.

Carnation Cuttings.

Will take orders from now on until April for Rooted Cuttings of DAYBREAK, MCGOWAN and EDNA CRAIG, at \$2.50 per 100; \$20 per 1000. 500 at 1000 rate.

Selected stock, free from rust or any other disease. Will pay express on orders for 1000 and over. CASH WITH ORDERS. ADDRESS

WM. BIERSTADT, 16th & Cedar Sts., Springfield, Ill.

NEW CHRYSANTHEMUMS.

Fewkes, Challenge, Dalledonze, Inter Ocean, Mrs. Hs. Mrs. Hill, Mrs. Lippincott, Dean, Mutual Friend, Bonnation, Yellow Queen, Davils, Pitcher & Munda, Gray, Beau Ideal, Bramhall, and others. Sold in sets of 12 plants each under the head of "Specialties" and "Novelties." Order varieties "Selects of 1908," 16 plants, and the "Old Guard Set" of prize winners, 18 plants each. Price, \$1.00 for each set plants by mail, postage paid by me. Send for catalogue.

MEREDITH B. LITTLE, GLENS FALLS, N. Y.

CHITTY'S NEW PRIZE CARNATIONS

For 1895.

ALASKA—The Best and purest white ever offered.

CORSAIR—The scarlet McGowan.

MAGNET—Beautiful magenta rose.

LITTLE GEM—The dwarf J. J. Harrison.

MINNIE COOK—Superb variegated sort.

See full page illustrated advertisement of above in American Florist December 1st and 8th.

FOR DESCRIPTIVE WHOLESALE PRICE LIST

ADDRESS **H. E. CHITTY,**
PATERSON, N. J.

WANTED!

A good, free blooming, healthy, vigorous **Yellow Carnation.** Flowers must be perfect, of fair size and borne on long, stiff stems. There must be plenty of pips, and these easily rooted.

AND HERE IT IS—Any one of the following will fill the bill:

ELDORADO—Pure yellow ground edged with light pink. Picotee marking.

KITTY CLOVER—Light yellow striped red with a little white.

EULALIE—Yellow ground penciled with pink.

We also offer this year

PRINCESS BONNIE—A beautiful pink variegated flower of large size; and
DAISY BELL—A white, variegated similar to Chester Pride, but very much larger flower.

Send for general price list of both Carnations and Coleus.

W. R. SHELMIRE,
AVONDALE, Chester Co., PA.

THE COTTAGE GARDENS,

Queens, Long Island, N. Y.

WHOLESALE CARNATIONS.

New Carnations our Specialty

FRED. DORNER & SON,
FLORISTS,

LA FAYETTE, : : INDIANA.

Carnation Mrs. Fisher
IMPROVED.

Strong Rooted Cuttings, free from disease,
\$2.00 per 100; \$15.00 per 1000.

CHARLES EVERDING, Branford, Conn.

Carnations, Ready Now

WM. SCOTT, from sand = **\$3.00 \$25.00**
LIZZIE MCGOWAN, from sand **2.50 20.00**

The above varieties are from special selected stock. Plants from soil will be ready February 15th.

CHARLES H. ALLEN,

Please send cash with order. **FLORAL PARK, N. Y.**

"THE CARNATIONS."

	Per 100	Per 1000		Per 100	Per 1000
WM. SCOTT, Rooted Cuttings.....	\$3.00	\$25.00	DAYBREAK, Rooted Cuttings.....	\$3.50	\$20.00
LIZZIE MCGOWAN, Rooted Cuttings..	2.50	20.00	ALBERTINI, Rooted Cuttings.....	3.00	25.00
TIDAL WAVE, Rooted Cuttings.....	2.50	20.00	BOUTON D'OR, Rooted Cuttings.....	8.00	70.00

Of the above lot we are booking orders for early delivery. We have some Wm. Scott now ready. We call particular attention to our stock of Wm. Scott, which is extra fine. Lizzie McGowan, the best we have ever seen. Tidal Wave does particularly well with us and is remarkably good. The other varieties we offer are also in the condition. As we have the control of JEROME A. SUYDAM & CO'S stock, together with our own, it will compare favorably with any yet offered. Special prices on 10,000 lots. CASH WITH ALL ORDERS.

DAILLEDOUZE BROS., FLATBUSH, BROOKLYN, N. Y.

CARNATIONS READY NOW.

Rooted Cuttings, that are guaranteed well rooted and perfectly healthy. If they are not you can ship them back and have your money returned.

Write for prices, stating how many you will want of each variety and when they are to be delivered, I think we can make a satisfactory deal together.

List of varieties on application.

ALBERT M. HERR,
L. B. 496. **LANCASTER, PA.**

Booking Orders NOW

— FOR —

WILLIAM SCOTT, Per 100 Per 1000
\$3.00 \$25.00
Strong **HEALTHY** plants **FROM THE SOIL** for early **SPRING DELIVERY.**

MRS. FISHER, For Summer Blooming
Ready NOW.

Per 100, \$2.00, Per 1000, \$15.00.

Send for price list of other

NEW AND TESTED CARNATIONS.
FISHER & AIRD,
Norfolk Co. **ELLIS, MASS.**

CARNATIONS

WM. SCOTT, the best pink.
GOLDFINCH, the best yellow.

Send for list of Rooted Cuttings of these and all the best varieties.

GEO. HANCOCK & SON,
GRAND HAVEN, MICH.

Carnation Cuttings

NEW AND OLD VARIETIES.

Good, healthy stock, well rooted, ready by January 1st, 1895.

Rooted Cuttings **GIANT DOUBLE ALYSSUM, VIOLETS, COLEUS, ETC.** Write for prices.

E. J. CLOUD, Avondale, Chester Co., Pa.

Garnation Wm. Scott.

The best and most profitable Carnation. It is the most productive. It is the strongest and healthiest grower. In size it ranks with the best. The flowers bring the highest price.

Rooted Cuttings. **\$3.00 per 100; \$25.00 per 1000.**
GUARANTEED FREE FROM RUST.

E. J. PADDOCK, Station F, Cleveland, O.

I DON'T THINK.

On this subject, it requires only an ordinary judgment to disclose the fact that **CARNATIONS** make stronger, beefier stock when grown cool—on ground beds—and in a new house.

RUST has never visited us (barring Mr. David Rust of the "Exchange"), and clean, vigorous stock of the following list will be at your disposal on and after Feb. 1st, 1895.

	Per 100	Per 1000
Ophele, new, large, medium pink.....	\$10.00	\$80.00
Sweetbrier, pink.....	5.00	45.00
Wm. Scott, pink.....	3.00	25.00
Daybreak, pink.....	2.50	20.00
Thos. Cartledge, carmine, scarlet nt night.....	2.00	15.00
Puritan, white.....	2.00	15.00
Lambton, white.....	2.00	15.00
McGowan, white.....	1.50	12.50
Mrs. Fisher, white.....	1.50	12.50
Portia, scarlet.....	1.50	12.50

Other standard varieties if desired.

Excellent stock of **Lady Campbell Violets** now ready.

"THE SLOPE," C. S. SWAYNE,
KENNETT SQUARE, Chester Co., PA.

OPHELIA.

A large pink **CARNATION**, a little darker than Scott. Winner of Craig cup for best seedling at Philadelphia, in spring of '93; will be ready for distribution Feb. 1st, at \$10.00 per 100; \$80.00 per 1000. Those wishing to list it please write.

MOST LEADING VARIETIES READY AT SAME TIME.

MRS. FISHER.

(For summer blooming), now ready, from soil, at \$12.50 per 1000.

LADY CAMPBELL VIOLET, Rooted Runners ready, at \$2.00 per 100; \$15.00 per 1000.

EDW. SWAYNE, Kennett Square, Pa.

Mention American Florist.

50,000 Carnations.

ROOTED CUTTINGS.

Ready now. Positively no **Rust.** Also rooted **Mums, Lady Campbell Violets.**

Send for Price List.

Wm. Swayne,

P. O. Box 226. **KENNETT SQUARE, PA.**

CARNATIONS & VIOLETS

	Per 1000
5000 DAYBREAK.....	\$15.00
5000 SILVER SPRAY.....	10.00
5000 LIZZIE MCGOWAN.....	12.50
LADY CAMPBELL VIOLETS, well rooted runners.....	10.00

Immediate delivery for cash.

JOSEPH RENARD, Unionville, Chester Co., Pa.

CARNATIONS

50,000 Rooted Cuttings.

Clean and healthy, now ready, including Wm. Scott and other profitable varieties.

Send for price list to

JAMES HORAN & SON, Bridgeport, Conn.

Toronto.

The members of the Gardeners' and Florists' Association will have some very important business to discuss at the regular meeting to be held this week. The committee appointed to consider the advisability of amalgamating the July and November shows will report against amalgamation but will recommend a scheme which if carried through will improve the position of horticulturists in Toronto and three or four other Canadian cities and eventually give horticulture its rightful standing among the professions. This scheme of which I hope to be able to give full particulars next week will require some hard work and self sacrifice at the hands of those entrusted with the task of putting it through, but from present indications I think there need be no fear on that score.

The annual meeting of the Electoral District Society for the election of directors also takes place this week and it is probable that a good many of the gardeners and florists will attend, expecting developments.

Lots of snow has fallen this week and the city is lively with sleigh bells and cyclone electric sweepers. Weather moderately cold and business fairly good.

E.

Worcester, Mass.

The old adage, if you want a thing done do it yourself, or words to that effect, is pretty near right, as I found to my sorrow when the man to whom I entrusted my little report of the New Year's trade handed it to me on the 10th with the superfluous remark, "I forgot to mail it." It is rather late now to say much about trade on the first, but we did a very good business, and the supply of flowers was very short, which brought prices a little higher than at Christmas. There was a big run on carnations, and Daybreak, Wm. Scott, Harrison and a pink sport from Harrison, locally called Miss Burnside, sold for \$1 per dozen, other kinds brought 60 cents. Trade has been fairly brisk this month and prices are very fair, as dark weather has shortened the supply. Good valley and freesia are now in the market, Harrisii lilies are plentiful and W. J. Wood is bringing in quantities of very fine Marie Louise.

A. H. L.

**PALMS CHRYSANTHEMUMS
CARNATIONS ORCHIDS & ROSES**

Prices on application.

EDWIN LONSDALE,
WYNDMOOR, near Chestnut Hill, PHILA., PA.

Mention American Florist.

SURPLUS STOCK.

Grevillea robusta, 3 1/2-inch pots Per 100 \$5 00
 Dracaena indivisa, 3 1/2-inch pots " " 5 00
 " " 2 1/2-inch pots " " 2 50
 Smilax, cut back, 2 1/2-inch " " 1 75
 New Seedling Heliotrope "Emma Heath"; a great improvement over all existing varieties, \$3 per dozen; \$20 per 100. Ready Feb. 1st.

THE OAKS GREENHOUSES, Jackson, Mich.

SPECIALTIES

ALL IN THE BEST VARIETIES.

ROSES, CARNATIONS, CHRYSANTHEMUMS, VERBENAS.

Rooted Cuttings and Plants. Send for price list.

WOOD BROTHERS, FISHKILL, N. Y.

**ROSES.
ROSES.**

Superior forcing stock. Strong field-grown. Budded low on Manetti. Extra heavy tops and roots. Better than imported; can depend on their reaching you in first-class condition. Our exhibit at Atlantic City received Honorable mention.

E. V. Hallock says: "Your field-grown Roses interested me very much. They are without doubt the finest grown roses in the world." "The finest and cheapest I ever bought."—*Wm. Falconer.*

HYBRID PERPETUAL, MOSS AND CLIMBING.

In Splendid Assortment of leading varieties. Also Extra fine stock of following will be offered at very low rates while surplus lasts:

TREE ROSES—Holland grown, well rooted, good, heavy tops, in fine assortment.

AMPELOPSIS VEITCHII—Extra, 3 to 4 feet.

ARISTOLOCHIA SIPHO—Strong well-branched plants with heavy roots.

VIBURNUM PLICATUM (Japan Snowball)—2 feet.

CLEMATIS—Strong, 3 year, large flowered.

TUBEROSES—Pearl and Double Italian, fine bulbs.

CALADIUM ESCULENTUM—9 to 10, 7 to 9 and 5 to 7 inch.

Low prices on application. State quantities wanted.

OUR USUAL COMPLETE STOCK OF HARDY AND TENDER PLANTS, POT ROSES, SHRUBS, VINES, BULBS, FRUIT AND ORNAMENTAL TREES, GRAPE VINES, SMALL FRUITS, SEEDS, ETC.

41st YEAR. 1000 ACRES. 29 GREENHOUSES.

THE STORRS & HARRISON GO.,

PAINESVILLE, Lake Co., OHIO.

CATALOGUES AND PRICE LIST FREE.

Rooted Rose Cuttings.

After February 5th, 1895, we shall be prepared to furnish first-class rooted rose cuttings of **American Beauties**, at \$2.50 per 100. **Brides, Bridesmaids, Perles** and **Meteors**, at \$1.50 per 100.

After March 1st we shall have a fine lot of rose plants from 2 and 3-inch pots at hard times prices. Orders received now, and shipped when wanted.

BASSETT & WASHBURN, Hinsdale, Ill.

AMERICAN BEAUTY, AMERICAN BELLE, TESTOUT, METEOR, BRIDESMAID, BRIDE, LA FRANCE, WOOTTON, MME. DE WATTEVILLE AND KAISERIN AUGUSTA VICTORIA.

ROSES

CATH. MERMET, CUSIN, PERLE DES JARDINS, MME. HOSTE, NIPHETOS.

Rooted Cuttings. . . . Cash with order. . . . Address for quotations,

VILLA LORRAINE ROSERIES, T. W. Stemmler, MADISON, N. J.

To Make Room.

We have at least 80,000 Geraniums, all the leading varieties, grown in flats, ready for 3-inch pots, at \$1.75 per 100, \$15.00 per 1000. In all cases cash must accompany the order. Selection of sorts to remain with us.

J. E. FELTHOUSEN,

370 Van Vranken Ave., SCHENECTADY, N. Y.

PALMS.

150,000 of all the leading varieties.

FERNS.

50,000 of leading varieties.

Address **GEORGE WITTBOLD,**

1708 N. Halsted St., CHICAGO.

ASTER SEED.

BEST STRAIN ON THE MARKET. Fresh tested seed of Semple's strain of Aster Seed now ready for sale. Long stems, late flowering and delicate colors make it desirable for cut flowers.

Prices quoted to the trade on application. \$1.00 per large trade pkt. Quantity of seed limited.

JAMES SEMPLE,

Box 2. Bellevue, Allegheny Co., Pa.

100,000 Roses

Strong 2-inch pot plants, \$25 per 1000; \$3 per 100 in following sorts and many others.

Beauty Inconstante, American Perfection, Mermet, Bride, Perle, Meteor, Gloire de Dijon, Devonensis, Ctisse, du Parc, Etoile de Lyon, Cels, La-marque, Solfaterre, Niel, Souvenir Therese Levet, White La France, Estelle Pradel, Ctisse, de Laharthe, Ed. Leitaye, Mme. Olga, Mme. Merrier, Mme. Cusin, Queen, Papa Gontier, Mme. Jos. Schwartz, H. M. Stanley Reved'Or, W. A. Richardson, Mme. Jessie Fremont and many others.

TRIPLE YOUR MONEY by buying now, and cultivate for spring sales. Write for Wholesale and Retail Catalogue for special sorts at special prices.

ROSES IN ALL SIZES OUR SPECIALTY.

Address **NANZ & NEUNER,**
LOUISVILLE, KY.

Hybrid Perpetual Roses,

Worked low on the Manetti Stock, offer the best results to the florist, blooming freely and giving plenty of cuttings for propagating quickly. Fine plants for sale by the 100 or 1000, at low rates.

Price Lists to applicants. Address

WILLIAM H. SPOONER,

JAMAICA PLAIN, (Boston), MASS.

Mention American Florist.

VERBENAS. Good assortment. Clean and healthy.

STOCK PLANTS \$3.00 per 100; \$25.00 per 1000

ROOTED CUTTINGS " " 80 " " 800 "

CARNATIONS—Rooted Cuttings of leading kinds, \$2.50 to \$3.00 per 100; \$20 and \$25 per 1000.

VIOLETS—Marie Louise, strong from 2-inch pots, no disease, \$4.00 per 100. Terms cash.

JOSEPH HEINL, JACKSONVILLE, ILL.

PLANTS.

Our selection, all good, well grown, named varieties. 10 at 100 rate. Per 100

Begonias, 20 varieties.....	\$4.00 & \$5.00
" Rex, good assortment.....	6 00 & 8 00
" Marikata aurea.....	10 00
Fuchsias, best varieties.....	3.00 & 4.00
Heliotropes, 10 kinds.....	3.00 & 4.00
Croton Maculatum, strong plants.....	8.00
Crotons, assorted, strong plants.....	8 00
Plumbagoes, Lady Lapent's, Capensis and Capensis alba.....	4.00
Hibiscus, double and single.....	4.00
Geraniums, double and single, bronze and silver.....	3 00 & 4.00
Abutilons, assorted.....	4.00

Rooted Cuttings.

Heliotrope, best new and old.....	1.00
Coleus, mixed, 50c; fine named.....	1.00
Fuchsias.....	1.00
Alternantheras, 4 kinds.....	.50
Begonias.....	1.50
Geraniums, bronze and silver.....	1.50
Ageratum, Brighton Beauty.....	1.00
Ageratum, White Cap and Cope's Pet.....	.75

Cash with order. If to be sent by mail, add for postage 10c. per 100 for Alternantheras; 20c. per 100 for Coleus, Heliotropes, Fuchsias and Ageratums; 30c. per 100 for Begonias and Geraniums.

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THE FINEST STRAIN is what every florist wants. I think you will find mine as good as the best. Stock carried in cold frames, and orders filled any time. 10" by 10" 60 cts; 1000 by express \$5 00; 5000 \$20.

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EXTRA FINE STRAIN.

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A magnificent collection of the finest plant flowering varieties; largest flowers and best colors.

Each per trade pkt 25c; 3 pkts. 60c; 6 pkts. \$1.00.

I will here thank my florist friends for the many letters of commendation received during the past year.

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COLUMBIA (Medal Awarded); 3 ft.; foliage a rich dark green; a strong, vigorous grower, with flower stalks producing as high as seven immense trusses which stand erect; flowers very large and rather compact on spike, though not enough to detract from beauty; petals 1½ inches wide and slightly overlap each other; texture very thick and firm, and flowers will last longer and withstand wind and rain better than any other variety; an early and constant bloomer; color a rich glowing red. PRICE, \$1 00 each; \$10 00 per doz.

PRIMA (Medal Awarded); 2½ feet; foliage green; strong vigorous habit, with large flowers and trusses; color yellow, faintly dotted with scarlet; an excellent bedder, giving a good yellow effect. Each 60c; per doz \$6.00.

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E. G. Hill & Co., Richmond, Ind., say, Nov. 20, 1894: "Columbia—We consider this Canna in the matter of color, size of flower, size of spike, and habit, one of the very best now before the public."

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Large Clumps, \$40 per 100.

Will divide into 3 to 5 parts. Every florist should have 100. They pay. Write for 1000 price.

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... Rooted Cuttings.

Mailed for \$1.00 per 100.

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All the best new market sorts. 60c per doz.; \$4 per 100. Best market sorts of previous years, 50c per doz.; \$2 per 100. Ready for delivery Feb. 1st. Also CYCLAMEN persicum giganteum, 3½-in. \$6.00 per 100. GENTIANAS, 5-inch pots, fine plants, \$12 to \$15 per doz. SMILAX, 2½-inch pots, \$2.00 per 100; \$15.00 per 1000.

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Chrysanthemum Etoile d'Or,

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Pittsburg, Pa.

The regular meeting of the Pittsburg and Allegheny Florists' Club was held in Magin's Hall, Allegheny, on Tuesday, January 8; there was a good attendance, considerable enthusiasm in regard to the coming S. A. F. convention. The club has 105 members in good standing, and expects to have at least 125 before this year is out, possibly a good many more. Everybody intends to help a little and by this it means a big lot by August.

It being the first meeting of 1895 the nomination of officers for the ensuing year was the principal order of business. Fred Burki of Bellevue nominated A. W. Bennett for president; Jno. Bader of Troy Hill and Jno. Herron, foreman of Allegheny Conservatories were nominated for vice-president; Geo. W. Burke, superintendent of Highland Park for secretary; Fred Burki for treasurer, P. S. Randolph, Geo. Oesterle and F. W. Gibbs for trustees. The election takes place next regular meeting January 26.

At the last meeting a committee of five was appointed to select hall and meeting place for the S. A. F. convention. The committee met at Elliott & Ulam's Monday the 7th inst. and looked over the exposition building, which they consider the best of all, having ample space for the meeting and exhibition under the same roof, and being on the river front will make it the more pleasant. The committee met the president and manager of the exposition, laid the matter before them, and have since heard from them that providing the convention can be held August 6, 7, 8 and 9, we can have the building at a merely nominal figure, if not will have to look further.

F. W. Gibbs made a very nice exhibit of cut carnations, The Stuart being very fine, good stems and no bursting of calyx.

The stores all report trade improving; plenty of cut flowers and very good ones. Funeral work has been plentiful; the weather this week has been miserable.

The Allegheny Conservatories are looking fine; the begonias and primulas making a good show. At Schenley Park the cyclamens are in full bloom and a house of primroses and freesias make an interesting exhibit.

E. C. Reineman left for a trip to the Holy Land, and will be back in time for the convention. BROWN.

Mushrooms in a Carnation House.

I wish to enquire whether anyone has succeeded in growing mushrooms under the benches of a carnation house and if they have, does the ammonia arising from the mushroom bed interfere with the health of the plants? W.



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CARNATIONS, Germania, splendid yellow; Souv. de la Malmaison, flesh. \$2.00 per dozen.

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Orders booked now for fresh imported stems, fronds and roots cut off; best long-leaved variety. Delivery Feb. 1st to April. Cultivated Cycas always on hand, rooted and well established

Lil. Auratum, Spec. Rubrum and Album. Etc. Iris Kamperi, in 100 choice varieties. Japanese Maples, in best varieties. Camellias, Paeonies, Tree Ferns, Raphis, Etc. Araucaria excelsa, choice cultivated stock at lowest prices.

For general Japanese stock apply to F. Gonzalez & Co., 303 to 312 Wayne St., SAN FRANCISCO, CAL.

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ROOTED CUTTINGS GIANT DOUBLE ALYSSUM, &c. Send for list of prices of Coleus and Carnations.

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Joosten's Magazine Bellows, the best out. Postite, 25 lbs. \$2.00. Bellows, \$3.50. Cash with order. Sold by all dealers and by

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AZALEAS. We pay the Express,

And guarantee safe arrival. Azalea Indica, 12 to 15 in., well set with buds, 75c each. Azalea mollis. 50c each. Per 100 Geraniums, dbl. and szl., mixed colors, 3-inch. . . \$3.50 Begonia Vernon, 3-inch. 4.00 4-inch. 6.00 Genistas, 4-inch. 6.00 Hydrangea Otakasa, 4-inch. 8.00 5-inch. 12.00

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Pansy, Calceolaria, Primula, Cineraria, choicest strains, nt 25 and 50 cts. per trade packet.

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Three-Piece Wood Mailing Boxes. The neatest and strongest box in the market. Send 10 cents in stamps for sample cost. We also make Cut Flower and Express Boxes. Thin Lumber sawed to order for packing.

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Grevillea Robusta.

Strong 2 1/2-inch pots, 50c. per dozen; \$3.00 per hundred.

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Made up, nailed or lock cornered; or material cut to size ready to be nailed up at destination.

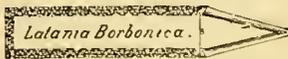
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¼, 5-16, ¾, ½, ⅝, ¾, and ⅞-inch square, cut to lengths wanted.

When asking prices state sizes of boxes or stakes and quantity wanted.

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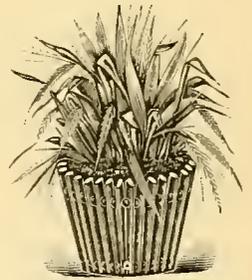
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May have been made this century for Florists and Seedsmen. We didn't print all of them, but we'll keep right on, getting well into the millions, as more find out that we really make the best work in the country. Just write us: we've the cuts and the knowledge.

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A bench 100 ft. long by 3¼ ft. wide will cost \$25.00. Write for particulars to

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Write us before placing your orders elsewhere.

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Best pattern of 2½-inch, printed and wired. "Highly commended" at Convention American Florists at Atlantic City.

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Kills Mildew and Fungus Growth.
What does?
GRAPE DUST,
Sold by Seedsmen.

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50 lbs \$1.50; 100 lbs \$2.50.
Extra fine, per 100 lbs. \$5.
Sample FREE.

Vaughan's Seed Store, 688, Chicago.
Mention American Florist.

MAIL

LOCK THE DOOR BEFORE THE HORSE IS STOLEN
DO IT NOW.
JOHN G. ESLER, Sec'y, F. H. A., Saddle River, N. J

Washington.

New Year's trade was about as usual, good, though it was not to be compared with Christmas. Flowers were plentiful and of good quality. The orders were mostly for table decoration, with an occasional order for either violets, roses or carnations for corsage bouquets or suitors.

Tulips have made their appearance, though but little in demand; white ones are selling for \$1 per dozen. Good plants of azaleas are getting more plentiful and are bringing from \$2 to \$5 each, and are in demand. The majority of the flower work at present is on a small scale, for teas or luncheons with an occasional wedding or dinner, carnations being the favorite flower and used in large quantities.

The weather of late has had a tendency to make good roses scarce, yet there seems to be enough to supply the demand. Beauties are bringing from \$3 to \$9 per dozen; Brides \$2 to \$3; Mermets and Meteors the same; La France from \$2 to \$4; Golden Gate \$2 to \$4; Kaiserin \$3; Perles \$1 to \$1.50. The prevailing prices for carnations are from 35 to 50 cents per dozen, though some fancy ones are bringing as much as \$1 per dozen. Violets remain \$2 per hundred and are very fine. Valley \$1 per dozen; narcissus and Romans 50 cents per dozen. Smilax 25 and 50 cents per string. Asparagus 75 cents.

REYNOLDS.

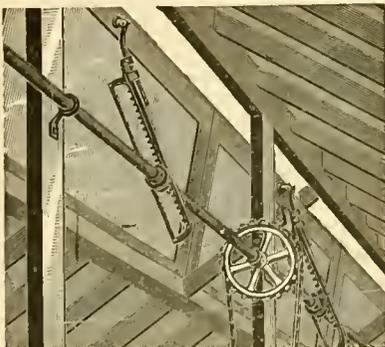
TRENTON, N. J., Jan. 3.—The New Jersey State Horticultural Society held its final session of the year to-day. The following officers were elected: President, E. P. Beebe of Elizabeth; vice-president, I. W. Nicholson, Camden; secretary, H. I. Budd, Mount Holly; treasurer, Charles S. Jones, Newark; executive committee, Dr. J. B. Ward, Charles Parry, J. J. Blackwell, T. F. Baker, D. A. Vanderveer; legislative committee, Dr. J. B. Ward, I. W. Nicholson, Theodore F. Baker; delegate to State Board of Agriculture, Dr. J. B. Ward; delegates to American Pomological Society, Charles Perry and Horace Roberts.

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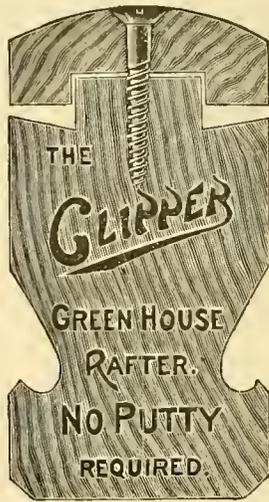
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We have got just the thing you need, the NEWEST and BEST thing out. "The New Departure" for about half the cost of the old style. Send for Descriptive Catalogue to

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A Different Letter Every Week

MIDDLETOWN, N. Y., Nov. 5, '94.
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Gentlemen:—The past summer I had occasion to buy of you for my new houses sash bars, gutters, ridges, etc., of your clear Cypress and would say that the material was free from knots and sap, well seasoned, and carefully cut to my sizes as per specifications. I also bought of you once before, and judging from these two times, I should say that the Lockland Lumber Co. were an honest, square firm who would do as they agreed.

Yours respectfully, GEO. S. BELDING.

Green-House Material.

The finest CLEAR CYPRESS used.

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Announcement to Florists.

We desire to announce the dissolution of the firm of Sipfle Dopffel & Co., and to introduce to the trade its successor, The Syracuse Pottery Co., which will be under the management of William Dopffel and Conrad Breitschwerth. The business will be conducted as heretofore, except on a larger scale to meet the growing demand for our goods. We have accordingly enlarged our plant and capacity, and with unsurpassed facilities are now prepared to fill the largest order on short notice. Our latest improved machines are turning out the best and most serviceable flower pots in the market, and assuring you of our intention to lead in further improvements we solicit a continuance of your patronage in the belief that we can supply just what is needed at a price and in a manner satisfactory to all. Send for price list and samples and we know you will give us an order.

SYRACUSE POTTERY CO., 403 North Salina Street, SYRACUSE, N. Y.

STANDARD FLOWER POTS.

We will furnish you with prices on application, and will fill all orders promptly. Our Pots are excelled by none in the market.

THE PARMENTER MAN'FG CO.,
EAST BROOKFIELD, MASS.

FLOWER POTS.

We Manufacture all kinds of Flower Pots, etc. Making a Specialty of

Florist Standard Pots

Send for price list and samples (which will be sent free), and we know you will give us your order.

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10 per cent. off for cash with order. Special discount on large orders. We carry a large stock on hand of good strong pots.

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1 3/4-inch pots, per 1000	\$ 3.00	6-inch pots, per 1000	\$22.00
2 " " " "	3.25	7 " " " "	25.00
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Valuable Discovery of the 19th Century.
SILVER MEDAL AWARDED
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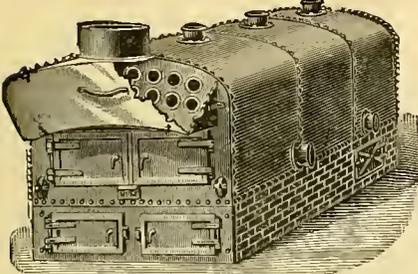
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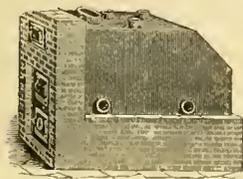


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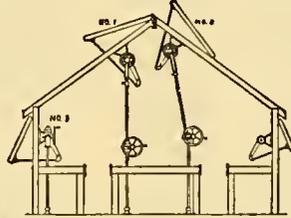
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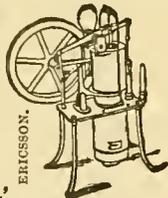
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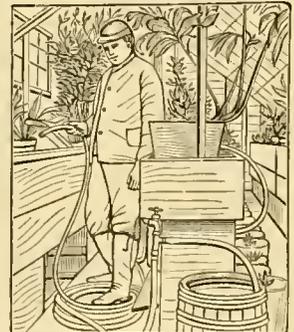
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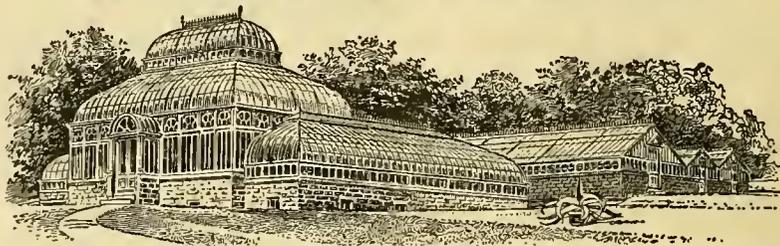
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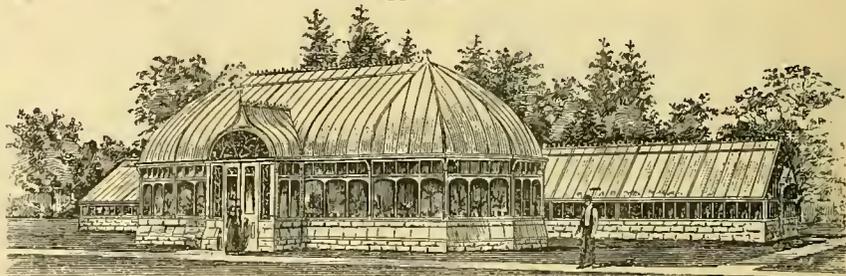
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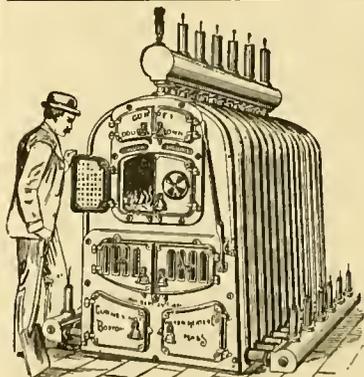
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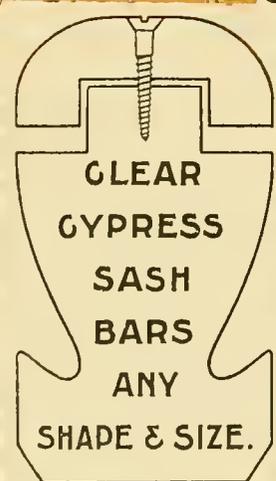
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Vol. X.

CHICAGO AND NEW YORK, JANUARY 26, 1895.

No. 347

THE AMERICAN FLORIST

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EDWIN LONSDALE, Chestnut Hill, Philadelphia, president; E. C. REINEMAN, Allegheny City, Pa., vice-president; WM. J. STEWART, Boston, secretary; H. B. BEATTY, Oil City, Pa., treasurer. The 11th annual meeting will be held at Pittsburg, Pa., August, 1895.

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Carnations Around Chicago.

That much progress has been made by local growers is evidenced by the quality of flowers sent in to market, though it cannot be denied that there is still room for improvement. There is one feature in the production of first-class flowers that has received the attention but of very few of our growers, and that is disbudding. That a larger and finer flower can be produced by disbudding is a fact no intelligent person will doubt, but whether it pays to go to this extra trouble and expense is a matter of much doubt to a great many. We are not prepared with figures to prove that it does pay, but the grower who most loudly condemns the practice is generally the one who has never given it a trial. Let him visit some of our wholesale dealers at any day during the season and keep his eyes and ears open and then do a little figuring for himself. At the present date for instance note the difference in prices of any one of the different varieties, say Tidal Wave. Here is a lot with stems 6 inches long, and in every bunch of 25 flowers you may count 50 to 75 buds; these are offered at \$1.50 per 100. And there is another batch with stems 12 inches in length, flowers much larger and finer; you needn't look close, you will see at a glance that these have been disbudded; \$3 is the price, and the flowers find a ready market almost any time. Of course it isn't disbudding alone that makes A1 flowers, and not every bloom grown under this treatment will fetch the top price. Again many a grower argues he cannot afford to sacrifice so many buds, one flower to a stem doesn't pay. Let us still confine ourselves to Tidal Wave and we have 3 buds to the stem on the average; the crown bud opens first and is always the largest and finest flower; this will have to be picked short if the rest of the buds are to be saved. For short stemmed flowers of this variety, which is also true of all the pinks, there is little or no demand; even when flowers are scarce and high the price obtained is rarely more than 50 to 75 cents per 100, often much less. But let us suppose the flowers are sold at that price. The two remaining buds may open at the same time but more often they don't; the one will open 3 or 4 days sooner than the other but is left on the plant until the last flower is ready to pick when it will be found that the color is badly faded; but even if the flowers are in good condition they will lack both in

size and length of stem and will not net you more than \$1 per 100, and if there happens to be a glut the chances are that the stuff won't find a buyer at all. Speaking of short stemmed carnations there is little or no demand for any except white and these only to a limited extent; thousands of flowers that are sent into the market are thrown into the waste barrel and the grower who is so anxious to save every bud finds that his efforts are entirely wasted.

A visit to the principal growers shows that plants are generally in excellent condition. There are weak spots of course in a good many places, and as a class the poorest showing is made in whites.

Silver Spray is still far in the lead as regards the number of plants grown; in quality, however, the flowers are not very satisfactory. In the thousands of blooms sent into the market daily there is rarely a perfect one. The old trouble, bursted calyx, is apparent everywhere. As regards the health of the stock there seems to be less trouble with rust, at least in many places, than was the case last year. This is undoubtedly owing to more intelligent treatment by the grower and by using the various preventives recommended. Still many a bench may be found entirely ruined.

Lizzie McGowan is finely grown in one or two establishments but is very indifferent everywhere else. The finest bench of this variety we ever saw was at John Lang's a week before Christmas. This bench at that time was just coming into crop. The health and vigor of the plants and the mass of buds and bloom was a grand sight. If this variety could always be done as well as this there would be small need of another variety. The weak neck, which is the principal fault of this variety, was certainly not apparent here. These plants were not housed until the middle of November (having been protected against frost by a frame and sash) for the reason that a batch of early "mums" were occupying the space intended for them. Many of the growers do not seem to thoroughly understand the requirements of this variety, hence the inferior quality of bloom. As to rust McGowan seems to be little troubled with it.

Uncle John has been under discussion to a considerable extent of late. "How do you find Uncle John?" is generally the first question asked when we enter an establishment. Well we find it good, bad and indifferent. Good in but one place, fair in two others and bad everywhere else. None of the growers around here went in very heavy on this variety; from 25 to 100 plants is about all you find at any one place. Chas. Hartwig, at Cuyler, has about 100 plants that are certainly as fine a lot as one could wish to see. There is not a sign of rust, the plants are full of buds and flowers of the

BLOOMINGTON, IND.—On January 13 the boiler at the greenhouses of Albert C. Rott burst and he had nearly all his plants frozen before new heating arrangements could be made.

PORTLAND, OREGON.—Christmas trade was about 15% larger than last year with no material change in retail prices. Supply equal to demand. Quality better than last year. Increased call for carnations and violets.

LANSING, MICH.—Harry Mann of the firm of R. Mann & Son died in San Francisco, Cal., January 19. He was returning home from Honolulu, Hawaii, and died on the day of his arrival in California. He was accompanied by his wife, to whom he was married last August.

finest quality and it is pronounced by Mr. H. the very best white ever grown. As to treatment it received the same as all the rest, having been grown in the field in light sandy soil, where it made extraordinary growth. On the bench it is growing in somewhat heavier soil side by side with Garfield, which latter, by the way, are looking superb also.

The two places where the variety is doing fairly are Henry Mundt's and A. H. Schneider's, both of Oak Park. In both places the plants are free from rust, but are slightly affected with bacteria, which disease the plants are now rapidly outgrowing. Both of these growers are satisfied with it and intend growing it next year on a larger scale.

But at all the other places (and we found it in a dozen or more) the plants were literally eaten up with rust. In most of the places the plants have been thrown out entirely. In every instance the plants are reported as having made an extraordinary strong growth in the field and being entirely free from rust until they were benched, when the trouble commenced immediately and in a few weeks ruined the plants past redemption. Soil appears to have made no difference. Some of the stock was grown in the field in a clay soil, others in a light sand and still others in our prairie loam. On the benches too we find quite a variety, from a light soil to a heavy rose soil. Doubtless our growers have read the article by Mr. Dorner in reference to this variety which appeared in a recent number of the FLOWER. This ought to shed some light on this question and we hope our carnation growers will profit by the hints thrown out. It would certainly be a pity to discard this fine variety without a further trial.

Mrs. Mailander is a fine new white that will probably besent out this spring. This variety is grown by Mr. Mailander, of Niles Center. It is a cross between McGowan and Hinze's White, the flower bring almost a counterpart of the latter, with the important difference that it is much earlier. In foliage and habit it resembles McGowan but is a much stronger grower, and during the three years it has been grown in this place (there are three large houses of them this year) it has been perfectly healthy and free from rust. Like Hinze's White the flowers in the first stages of development are of a creamy white, which turns to a clear white in a few days. There is no sign of bursting of the calyx.

In reds we find but very few of first-class quality. Portia is grown extensively almost everywhere. In this variety you cannot help noticing the difference in quality, particularly size, between disbudded stock and that allowed to grow naturally. Schramm Bros., of Desplaines, are picking some flowers of this variety that for size, color and stiff, strong stems are hard to beat. Stollery Bros. also are doing this variety in first-class shape. When you compare stock of this kind with the great hulk of the balance one wonders why it is that the growers cannot see the advantage of disbudding so clearly illustrated here. As to the health and vigor of the plant, in almost every locality there is nothing to be desired.

The Stuart has been tried in a number of places, but proves unsatisfactory everywhere. At Stollery Bros. we saw it in good shape so far as the plants are concerned, but the flowers too often almost single. At other places again the bloom is off color.

Of Garfield we have spoken before. For a variety that has been in commerce so

many years it retains its vigor and health remarkably well, but is of little value to most of the growers here, since almost everywhere it is very late, the first full crop coming in the latter part of January. A few exceptions may be noted. Of Chas. Hartwig's fine stand of this variety we have spoken. Chas. Held also had a fine crop as early as Christmas, and the plants continue flowering freely.

Hector is met here and there, but is not in good form.

A promising new variety is Lizzie Gilbert, grown by Mr. Hammersly of Lake Geneva, Wis. To judge by the few flowers which occasionally find their way to our market, this is a superb variety and well worthy of a trial.

In dark pinks Tidal Wave still holds the boards. As grown by quite a number it is a variety hard to beat. What disbudding will do is demonstrated here most forcibly. As we all know this is a dwarf grower, and during the early part of the season if not disbudded the stems are often very short. By disbudding, however, the stems lengthen considerably, which is a valuable point. As to size and finish of bloom there is no comparison between the ordinary run and those magnificent blooms produced by this method, notably by Henry Mundt, of Oak Park, whose flowers of this sort are simply perfect. Stollery Bros., Heim Bros., F. Stielow and a few others are also growing it very fine.

Coming to the lighter shades of pink we find Scott is in most excellent condition everywhere. Small trial batches of 25 to 100 only are seen at the various establishments, but the remarkably vigorous growth of the stock, its health and apparent freedom from rust, together with fine large flowers of even color and perfect shape is such as will induce every carnation grower to go into this variety more largely next year. Albertini is also quite satisfactory as regards quality, but as the number of flowers produced from a certain area of space or number of plants is far less than that obtained from Scott, and since the flowers, in our market at least, bring no more than the latter, it is evident that it will not pay as well to grow it. Aug Jurgens is cutting some fine blooms of this variety at present.

Daybreak stands peerless in its class as a light pink. It is fine everywhere, grown in a variety of soils; it seems to flourish under most any treatment. We have seen few places indeed where Daybreak is really poor. Of course there is a difference in the quality of the flowers produced at different places. The finest quality of bloom, both as regards color and size are produced from plants grown in a black prairie loam containing only a small percentage of clay, such as is found in many localities around the city. Planted in a light sandy soil, while the plants are fine and flowering freely, the flowers lack color and substance. On the other hand the poorest results are from stock planted in a heavy clay loam.

Nancy Hanks is showing up very well in a few places and so is Aurora. Grace Wilder is still grown in larger quantity than any other pink excepting Daybreak; the quality of the flowers however is poor in most places. Bursted calyx, and streaked and crippled flowers are the universal condition, one of the exceptions being those grown by Wienhoeber & Co., at Park Ridge, which are of fairly good size, color and form.

Helen Keller is making friends wherever it has been tried, which is the case to a very limited extent. The few small

batches we find are thrifty and free from disease. The flowers come perfect, but are not of extraordinary size.

In yellows there are practically none. Heim Bros. have a bench of Buttercup which has done nothing this season as yet, and very little can be expected until spring. Goldfinch we found in but one place, at the Singler estate, Washington Heights. Here it does fairly well, the flowers however are rather small and do not compare favorably with a well grown Buttercup, but it hasn't had a fair trial yet; it promises better than any other yellow yet tried in this part of the country.

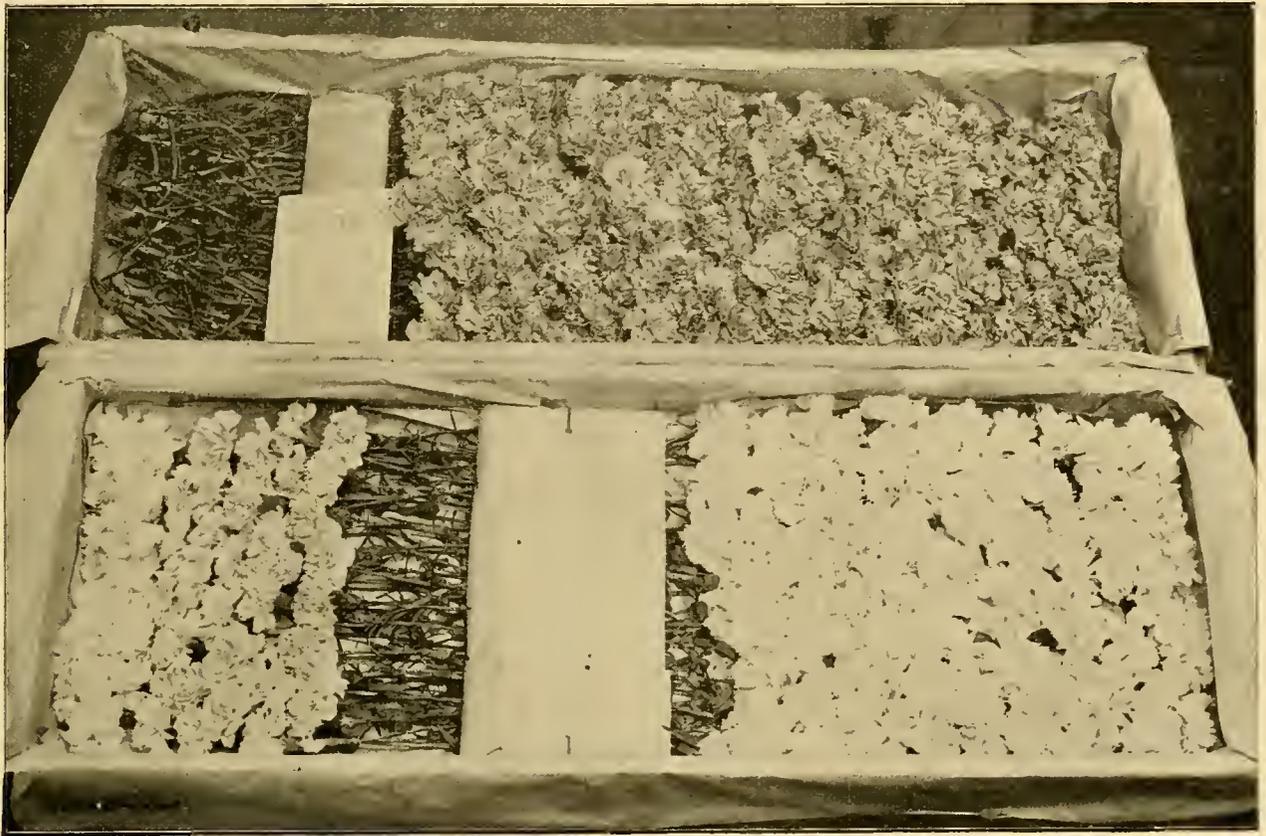
Carnation Notes.

The question has often been asked as to how much a house of carnations will produce, or how many flowers should be cut from a plant to make it a good paying investment. It depends almost wholly upon the grower. If a plant is large and in a good healthy condition it will produce from twenty to fifty single stem flowers, providing all goes well, but it often happens that a bench filled with superb looking plants showing a great profusion of buds will in the space of two or three weeks lose its fine appearance and gradually dwindle away from causes unknown to the grower. It is the same with the carnation grower as with the rose or any other grower; no satisfactory estimate can be made as to how much a house will produce. Many a man has been misled by the appearance of another's plant and has suffered by following the advice of some over-sanguine enthusiast. Many a house which looked very slim when planted has paid well, and then again I have seen houses this year which when first filled promised a rich harvest, but they have done nothing, simply stood still, and the grower is out to a large amount. Now is this the fault of the plant? Oh, no, for other growers with stock in the same apparent condition have been picking flowers in quantity all winter.

The excuse has been made to me on entering a house that was not doing well that the house was too dark, glass too small and that having a lot of sash on hand it was thought best to put them in the shape of a house in place of using them on frames; the house was blamed for a poor crop when the owner was to blame for using such sash for a house. We are often tempted to do this sort of building for the sake of having a house for small stock in the spring, but just as sure as we follow this line when fall comes around we fill that house with nice large plants of good sorts, and then about Christmas we want to kick some one. You see I know how this is, because I have done it and I now have two such houses filled with fine plants, that owing to the darkness of the same will be in fine bloom about March, and I must build again for young stock or throw out the fine plants. Better to refrain from building than to put up poor houses, for the difference in favor of the modern and improved style of building is too great to risk good stock in poor buildings; you will do well to recall the putting of new wine into old bottles.

By the way, there is to be a very large show of all the new and lots of the old carnations in connection with the convention of the American Carnation Society to be held in Boston during the third week in February, and every grower of carnations should go there.

CHARLES H. ALLEN.



PACKING CARNATION FLOWERS FOR SHIPMENT.

Carnations Around Cincinnati.

The varieties of carnations that are grown in Cincinnati and the vicinity are Tidal Wave, Portia, Daybreak, Silver Spray, McGowan, Scott, Diaz Albertini, Adelaide Kresken and a very few Uncle John and Stuart. Of the above named Daybreak is the most popular. Every place I have been the plants of this variety are from six to twelve inches in diameter and are literally covered with buds. It seems to suit everybody's soil and the flowers bring from 1 to 3 cents more than any other variety. It is free from rust. Wm. Scott is a rival to Daybreak. It seems to be giving satisfaction wherever it is grown, and will be more extensively grown here. Tidal Wave is still very popular, but will be dropped by a great many growers. Portia is still the best scarlet we have. The flowers are small but it is an earlier and a much freer bloomer than the Stuart. Stuart does not do much until after Christmas; it is a late bloomer.

Albertini is very fine here and like all fine things is scarce; it is too shy. Adelaide Kresken was giving the best satisfaction until the cloudy weather set in. Every body said it was the best seedling sent out in '94. Early in the fall until December the blooms of this variety were two to three inches in diameter, with a firm calyx and borne on long stems; it is a very free bloomer. But now fully 90 per cent. of the blooms burst. Silver Spray is still the queen of whites here. McGowan is grown by a few, but it does not do well in the summer and the stem is not stiff enough. Uncle John is a total failure here. All the plants rusted so badly last summer that very few of the growers would lift them, and those that did were compelled to throw them out later on. Rust

seems to be making wonderful progress here, and I have seen several houses that were completely destroyed by it. P.

Packing Carnation Flowers.

The accompanying engraving shows two boxes of carnation flowers packed for shipment by Mr. C. H. Allen. The upper box is 3 feet long, 1 foot wide and 4 inches deep, and contains one layer of flowers only. The lower box is 3 feet long, 1 foot wide and 6 inches deep, and contains two layers of flowers, there being a double thickness of heavy tissue paper between the layers.

The engraving is from a photograph secured by Mr. Allen at our request so we might make quite plain to all the points advanced by Mr. Allen as to correct methods of packing, and the value of same in securing the highest market price for the flowers. The picture tells the story plainly and forcibly.

American Carnation Society.

The coming meeting of the American Carnation Society, which takes place at Boston February 21-22, is one in which all lovers of the divine flower will be interested. I trust the members of the A. C. S. will all do something to assist in making it the grandest carnation exhibition ever held, in this or any other country. Nor is this confined to members only; we invite carnation growers all over the country to participate. That great strides have been made will be clearly proved, and we feel sure that all the new varieties will be exhibited. This alone is worth travelling many miles to see. We have the assurance from the Boston club that all flowers sent will be staged by experienced hands. The fact that Mr. A. H. Fewkes

has kindly consented to act is alone an assurance to those who are unable to attend.

The schedule of premiums will appear in the AMERICAN FLORIST at an early date. Look it over carefully, and see if there is not some clause in which you may win laurels. If for no other reason it will give you an idea, when you put your flowers by those grown miles away, whether you are in the swim. I have often heard people at a flower show remark, on looking at some exhibit, "Why, if I had known it I could have beaten that myself." There are plenty of carnation classes, so be on hand at Boston next month.

EUGENE DAILLEDOUZE.

Fertilizers for Lawns.

ED. AM. FLORIST: What fertilizer (odorless) outside of barnyard manure is best to use on lawns, and how much per acre? TEXAS.

To recommend intelligently any fertilizer for lawn purpose the requirements of the soil particularly in question must be known. It is safe, however, to say that nitrate of soda will be beneficial to a grass crop, and an odorless phosphate can be had in the commercial fertilizers manufactured from the Florida phosphate rock, and which contain also a small percentage of potash.

An amount equal to about 250 pounds per acre per annum of nitrate of soda applied during the growing season in three dressings, together with 600 pounds in amount in one dressing of the commercial fertilizer mentioned will make an odorless and efficient manurial dressing for lawns. J. A. PETTIGREW.

Milwaukee, Wis.

THE RETAIL TRADE.

A Convenient Retail Establishment.

We present herewith an engraving of the establishment of Mr. Walter Cliffe, who has lately succeeded Mr. David Cliffe, Germantown, Philadelphia, together with a plan of same. Mr. Cliffe seems to have utilized every inch of space to advantage, and in response to our request for his experience in securing the greatest possible benefit from the space at his disposal he writes as follows:

"My place has a frontage of 150 feet and a depth of 190. The ground is very valuable, and so I plan to have as little waste space as possible. Referring to the figures on diagram 1 is the drive. All coal and other teams pass the office, so the clerk can note all that enters or leaves the place; 2 is the boiler shed, where are my two steam boilers. The bin is arranged so that coal is "shot" in, and by opening a door at bottom will all run out so that it is not necessary to handle the coal except when firing; this shed being warm and dry makes an excellent place for storage of boxes and soil, and is also used as a general workshop; 3 is the stable, and alongside of it is the compost and soil; 4 is the office opening into show and greenhouses; my iceboxes are here, and general florists' stock; electric bells connect it with the greenhouses and dwelling, and they are so arranged that they will ring if desired when the office door opens; this is so regulated by a switch that it will ring the bells either in the greenhouse or my own home, or it can be used to call any of the men, assigning a certain number of rings to each one; 5 is the show-house; here I keep my decorative plants and such others as may be in season, so that it is not necessary to take customers all over the place to show them all I grow; as stock is sold it is replenished continually so that it always presents an attractive appearance; boardwalks make it usable by ladies at all times; 5 of my largest greenhouses open into the show-house, so that it is possible to go from the office to almost any part of the place without going out of doors; 6 is the greenhouses, all built equal span and filled with a general stock suitable especially to the needs of a retail florist; 7 is the potting shed, into which three of the houses open; ample bin space is provided for the different sizes of pots; soil is also stored here, so that it may be ready for immediate use when wanted.

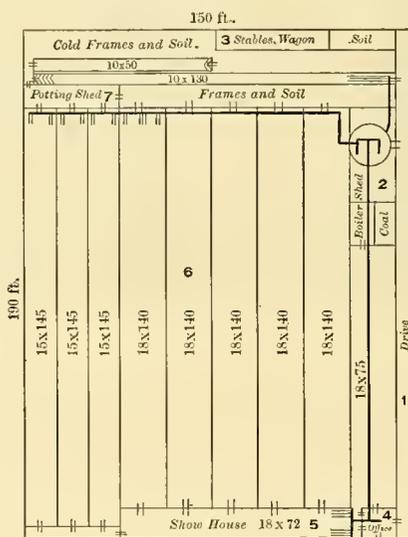
"The heavier lines are feed pipes from boiler; in the 3 houses on the left there are 5 1 1/4-inch pipes on brackets along path; in the 6 houses on the right they run under the benches, 7 1 1/4-inch pipes to a house; in the show-house on one side 4 pipes are overhead so as to be out of the way, while on the side towards the street they run under the side table. The place has been carefully planned, and I do not think any material changes are necessary. Perhaps I may sometime run the show-house along the entire front; it will make a better appearance, and I can then go all through the place without going outside.

"I have gone into unnecessary details, so that you might get all the information you desire. My trade is principally retail, and I have built the place to accommodate that class of patronage. It is kept clean and orderly, paths are clean, and as far as possible it is in good shape all the time. Nine-tenths of my customers are ladies, and I must cater to their tastes.

"Finally, all the coal, ashes and dirt, etc., are at the rear and out of sight from street and visitors going through the place. Having a show-house makes it unnecessary to run all over the place after the various plants a customer may want. If a plant gets damaged in any way it is taken out of the way and put in the greenhouse hospital, and does not detract from the appearance of the others. Flowers when cut are put in the icebox in the office so that we have everything at hand can wait on customers promptly."

Decorations at Washington.

I was fortunate enough to see one of the richest orchid decorations of the season at the Arlington Hotel, the occasion being an afternoon tea given by Mrs. Westinghouse of Pittsburg. The centerpiece was composed of *Adiantum Farleyense* studded with cattleyas, with a center of white lilac, oval in shape. At each of the corners was a smaller oval extend-



A CONVENIENT RETAIL ESTABLISHMENT.

ing lengthwise toward the center, these were also of *Farleyense* and cattleyas, out of which arose four white candles in silver candlesticks capped with white shades, the two nearest the corner of the table being much closer together than the others. These ovals were finished with a handsome arrangement of taffeta ribbon, (perfectly matching the cattleyas in color), which extended in graceful waves toward the center. The ends of these ribbons were lost under four cut glass vases filled with *Farleyense* and cattleyas with a center of white lilac. These vases were about halfway between the center piece and corner ovals. Strewn over the cloth were fronds of *Farleyense* and *cuneatum*.

The lower shelf of the cabinet mantel was banked with *cuneatum*, forming a base for two handsome cut glass vases filled with cattleyas. The top shelf was also banked with *cuneatum*, in the center of which was a bunch of white lilac. The chandelier was twined with asparagus thickly studded with cattleyas.

In the drawing room, the cabinet mantel was draped with asparagus. From the left hand corner of the lower shelf extending to the center of the upper shelf, was a large bunch of long stemmed American Beauties. Drooping from the right hand corner of the upper shelf was

a fall of Mermets. At the end of the room the spaces between the two windows was banked with palms, topped with a large vase filled with long stemmed Beauties. This decoration was done by Messrs. J. H. Small & Sons.

REYNOLDS.

Advertising by the Retailer.

An unlimited amount of money can be spent in advertising. It is almost a talent to know when to spend and when to stop. Local surroundings have much to do with it. If you haven't the ability to write a good advertisement it is best to secure a good advertise writer and send him copies of the papers you intend to use; he will advise as to size of advertisement, how it shall be displayed and write advertisements that will be read and remembered. Advertisements that say you have "the finest stock in town," are "selling out below cost," and all the hackneyed expressions, are worse than useless. Don't try to tell too much at a time; tell the people of one thing and tell it well, giving prices, etc., then stop; next time give them a change of diet. Change the advertisement every time it appears and do not take the cheapest place in the paper; have your advertisement where you are sure those who read the paper will see it; next to live local news is one of the best places.

Keep on the right side of the newspapermen. Give them a few choice flowers, when they call send a plant to their home; they'll remember it and give you an occasional "write up" that will be worth a dozen advertisements.

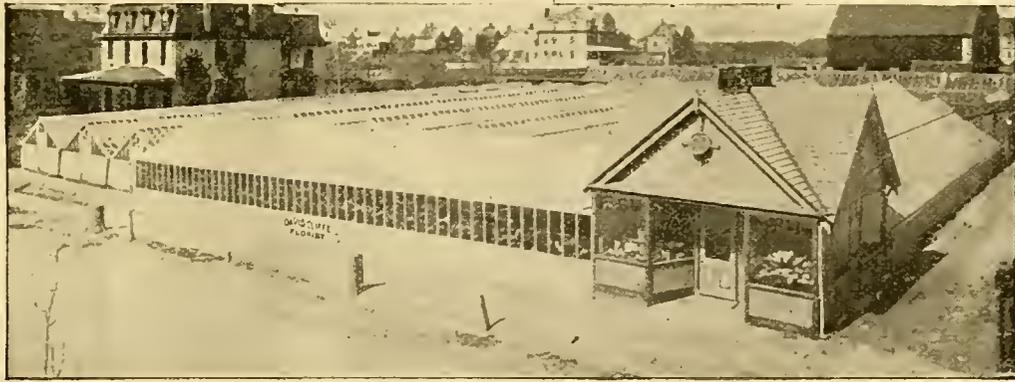
Use good cuts in your advertisements of what you have to sell; they catch the eye; everybody seems to enjoy pictures and if your adv. is well written people will be sure to read it. A cut is the bait on your advertising hook.

Circulars and flyers scattered around indiscriminately are of very doubtful value; probably one-half do not get into the proper hands, then those that survive are glanced at and probably thrown in the fire. Always keep in mind the class that you are dealing with and before you spend your money stop and think whether the proposed plan will reach the ones you intend it for or not.

A neat pamphlet or card sent by mail in sealed envelope is of undoubted value. It is sure to be seen by the person whose patronage you desire, and if you have anything good to offer and tell your story well, you will likely have them call on you. But if the printing and paper are poor and the only information you send is in the stereotype phrases, your money is wasted for it repels a possible customer.

Another excellent plan is, when flowers are going to waste and sales are dull make up boxes of choice cut flowers and enclose a card upon which is written "with the compliments of J. Wilton Wells, (or whoever your name is) soliciting your patronage." It can't help but please, it is sure to be acknowledged in some way and will almost invariably bring an order when flowers are needed. I have found this to be my most effective plan. The cost is practically nothing and results are sure.

Never disappoint customers by advertising something you have not got or in any way misrepresenting any article sold. They will speedily discover the hoax, and feeling that they have been duped once will hesitate to believe your future statements. Better miss a sale any day than to attempt to play sharp with a customer.



A CONVENIENT RETAIL ESTABLISHMENT.

If you want good trade, don't come in to wait on ladies unless you are in presentable condition. Torn clothes, muddy shoes, no collar, flannel shirt, rolled up sleeves, soiled hands, are not crimes but there is a place for everything and the place for the above isn't behind the counter. If you can't keep tidy it's better to keep a young lady clerk, one that dresses neatly, is bright, and obliging. She can keep your books, make up designs, wait on customers, keep your store tidy and it will be money in your pocket to have such a person around the place.

Never allow the men to lounge around the store. It doesn't look well and patrons don't like it. MORE ANON.

The Retailer's Window.

An attractive window has so much to do with influencing transient trade that no retailer can afford to neglect it. Of course stock placed in the window deteriorates rapidly, and the question of expense determines many florists in the meagreness of their display. Whether such economy pays is quite another question.

The first thing to be looked to is cleanliness. This may be considered unnecessary advice, but unfortunately dingy window frames, dusty vases or decaying foliage are not by any means unknown, and any one of the three is fatal to a good effect. Another frequent error is the use of moss, which may once have been green, as a background. The yellowing tint which wood moss takes on after once drying always has a decayed look, and it is doubly faded when contrasted with fresh foliage. Keep your moss for your baskets, and never let it appear in the window. Nothing else equals lycopodium or small ferns, and these are the only appropriate materials for such use. If you have the window bedded with lycopodiums, with a few well arranged small palms or ferns at the back a single vase of flowers will complete the display. Indeed, we often doubt whether cut flowers can compare with flowering and foliage plants for a window display. Take a window backed by palms, and carpeted with lycopodium, with a few small coxos here and there, in the center a blooming angræcum, lycaste or cypripedium, and no cut flowers except perhaps two or three bunches of violets lying on the lycopodium. Orchid plants are particularly good for this purpose; they are usually odd or beautiful enough to attract notice, and a little card may be placed against the window calling attention to any special feature, just as the jewelers do.

For where one person would look at an unlabelled *Vanda Sanderiana* a hundred would gaze in awe were it placarded "The \$5,000 orchid."

There is more than some retailers think in having some plant or flower a little unusual in the window. After looking at a dozen vases of roses in Brown's and Jones' windows people will take far more interest in Robinson's bank of yellow primroses, particularly if he has a little card calling attention to them as Disraeli's favorite flower, the emblem of Tory politics. We have seen a block in front of Thorley's window all afternoon, because there was a showy specimen of the bottle-brush tree on exhibition; in fact many ordinary shrubs, well forced, will collect an admiring crowd.

There is another thing to be carefully avoided, and that is the use of some drapery fabric as a background. This is not very often seen, but whenever it is the result is disastrous. Millinery effects are well enough in candy stores, but they put one's teeth on edge in a florist's. We have seen a window most elaborately arranged with fine hybrid roses utterly ruined by a background of Nile green drapery. The ideas expressed by good judges regarding table decorations may be studied profitably in arranging a window. R.

Miscellaneous Seasonable Hints.

About February 1 is a good time to sow seeds of several plants that are important to the retail florist. If you are not successful with carrying over verbenas, get some seed of the best strain procurable and sow at once. Seed of this once most popular plant is generally fresh and good, and the plants raised from seed are free of all disease and sure to be thrifty, growing vigorously all summer. By sowing now you can get a cutting off each plant by April 1. You cannot be sure of the colors you will get in seedlings, but our leading seedsmen now offer a strain of seed that will produce colors about equal to the named varieties. Sow in a temperature of 55° and when the plants are up and potted keep in a night temperature of 50°, which will suit them best right along till a higher natural temperature comes in spring.

Petunias are now very important plants, for they are used for several different purposes. The choicest named varieties can only be perpetuated by cuttings, but 95 per cent of all the petunias sold each spring are raised from seed. Be very careful that you obtain a good strain of seed. I know this is difficult to do, but

remember—don't hesitate over a dollar or two when purchasing seed of florists' flowers. A dollar saved on a thousand seeds of petunias can easily mean a loss of twenty dollars when they come in flower. This applies not only to petunias but to all flowers known as florists' flowers, such as cinerarias, cyclamens, primulas, etc. The seedsman or the man who saves the seed and who with great care, skill, and expense selects and fertilizes the plants showing only the best character, discarding all inferior flowers, must have remuneration for his time and trouble, or he will go out of the business. Buy only double petunia seed; you will get 60 per cent single from the best double strain you can buy. The seed is very small, and must be carefully sown. My method is to sow in shallow pans or boxes. Make the surface of the soil perfectly level (to prevent washing) and firm it down. Then water thoroughly before sowing. Then you don't have to water but very slightly after sowing the seed. Sow very thinly, the seed is so small you are very apt to let it drop much too thickly. After sprinkling the seed on the surface press down with the bottom of a clean pot and no covering is needed, except a piece of thin cloth, which can be laid over the surface and kept moist. This will prevent to a great extent the drying out of the soil, and can be kept on till most of the seeds have germinated. As soon as they are well up give them a light place, but never let them dry out too severely. They are best handled when quite small. I take them from the seed pan and put seven or eight in a 2½ or 3-inch pot. When they begin to crowd in that they are ready for a 3 inch pot, in which size most are sold. A practiced eye can easily pick out the double from the singles long before they flower, but it is difficult to impart that knowledge. The leaf of the double is usually lighter in color and the surface is not as smooth. If you can pick out the doubles it pays to pot up a few hundreds into 4-inch pots; they will make sturdy plants, develop their showy mottled flowers, and bring as good a price or better than a 4-inch geranium, which has taken more room and five months more time to grow.

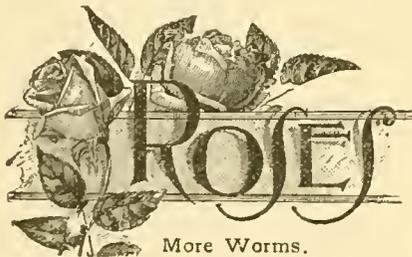
Sow smilax now to renew your beds next July, you need not encumber your benches with a flat of smilax seed. It will do just as well under a rose bench, and can remain there till the plants are 2 or 3 inches high. I believe in a good strong 3-inch pot plant of smilax for July planting. Between that and a weak little plant will be just one crop of strings the following season.

Don't forget to sow *Grevillea robusta* next month. This plant is proving to be of increasing value every year. It is a rough and ready fellow and will stand a lot of hard usage. Sown in February or March you can have fine plants for the following winter. It is good for the center of a vase. In cheap decorations it is most useful. I keep it under glass the whole time. A moderate temperature suits it at all times. It needs no antitoxine or any other cure for rust, smuts, bacteria, or parasites, for it has none of them.

It is much too early yet to sow seeds of our popular annuals such as asters, etc., but order them soon and have ready when the time comes. As every seedsman now advertises Vick's branching aster there is no harm in my saying a good word for it. It is a wonderful aster, and you can not afford to be without it. I have found it several weeks earlier than Truffaut's *Victoria* and other varieties, so it should be sown a month earlier than those kinds. If you still grow *Pyrethrum aureum* sow at once. If you don't raise *Lobelia E. speciosa* and *gracilis* from cuttings, which you should do, then sow the seeds without delay; it takes a long while to raise good plants from seeds.

I suppose after New Year's you began to pot your zonal geraniums from 2 to 3-inch, giving them more room. About the middle of February or sooner if you choose is a good time to increase your stock of this staple article of the florist by taking off the tops of those that are large enough. It will give the plants plenty of time to break and be in full flower in May, and the young plants will make the best of bedding plants. Don't trouble to put the cuttings in sand; just pot them firmly in 2-inch pots, water once thoroughly, and then till they are rooted be careful and not overwater. They will make better plants than if rooted in the sand, for there is no "draw up" or check given to them. The weather now is most favorable for propagating all such plants as coleus, *Achyranthes*, etc., plenty of bottom heat, and do not delay with any stock that you wish to increase. Propagating is so much easier now than when the sun shines hot and bright.

WM. SCOTT.



More Worms.

ED. AM. FLORIST: I send a box of earth containing some worms and larvæ that I found in my rose bed at a place where two or three plants had died. They were near the surface. Can you tell me what they are and if there is a remedy?

Des Moines, Ia. J. T. D. FULMER.

Your correspondent's sample of worms proves to be one of the family of wire worms known as elateridæ. This is rather an extensive family and they vary considerably in size and shape, also in color; they are all more or less injurious to plant life, in fact, I believe, in their grub or worm state they are all injurious to the young, tender roots of plants. In their beetleform they are known as "snap

beetles," "skipjacks" or "click beetles" from the peculiar noise they make when disturbed or in motion.

A remedy against their destructive properties in the open air is quick lime, thoroughly stirred to the earth and the soil kept continually moved, but this is out of the question for the greenhouse. If your correspondent can get any clean soot from a factory I would advise him to spread some of it over the soil of his benches where these things are most troublesome; a thin coat, just enough to see that it covers all the surface of the soil. The syringing of the plants, or watering, will carry this down to the roots and also to the neighborhood of these worms and it is very detrimental to their progress. If the first dose does not



THE NEW SINGLE VIOLET CALIFORNIA.

stop them try another one in about three weeks, being careful not to over-dose it sufficiently to affect the roses.

If your correspondent's soil is naturally troubled with this class of insect I should advise him when preparing it to go into the greenhouse to add considerable soot and also fresh lime, thoroughly incorporating the whole, and turn it over several times so as to get it into shape, or what would be better, give his land a good dressing and plough it in before using it the next season, then the rains, etc. would carry the lime and soot down into the soil and drive all the worms, etc. out of it; it is really one of the best ways to exterminate them.

Different members of this large family remain in their larval state from one to four years. The one that your correspondent sent sample of is of the one year family, and in the spring, say end of May or early in June, it will be easy to tell if there are many coming up from the soil from where he gets his greenhouse material, by the presence of the beetles above described. In that case I would advise him to try to destroy as many of these as possible by running a roller over the ground at least once a week; this crushes them all, or virtually all of them and gives them no chance to deposit their eggs to produce another crop.

JOHN N. MAY.

New Violet "California."

We present herewith an engraving from a photograph of this new single violet

which is claimed by the introducer to be a novelty of extraordinary merit. It is stated that the flowers are so large as to cover a silver dollar, have stems 12 inches long, are very fragrant, color pure violet purple. The San Francisco *Examiner* of January 13 devotes nearly a full page to an illustrated article headed "California Brobdignagian violet." The introducer of the new violet is Mr. Emory E. Smith, Palo Alto, Cal.

Swainsona Galegifolia Alba.

The accompanying engraving is from a photograph of a house of swainsona at the establishment of Mr. David Cliffe, Germantown, Philadelphia, Pa., who writes:

"The plants are in ordinary soil (no manure) such as I use for carnations. They commence to bloom in the cutting bench, and keep it up summer and winter, apparently indefinitely. My original stock plants are still growing and bloom on the bench where first planted. They have had no manure, and the soil is a mass of roots. The only special care the swainsona needs is that it be kept rather dry when first planted, as otherwise it has a tendency to rot at the surface of the ground. It is by far the most profitable plant I grow."

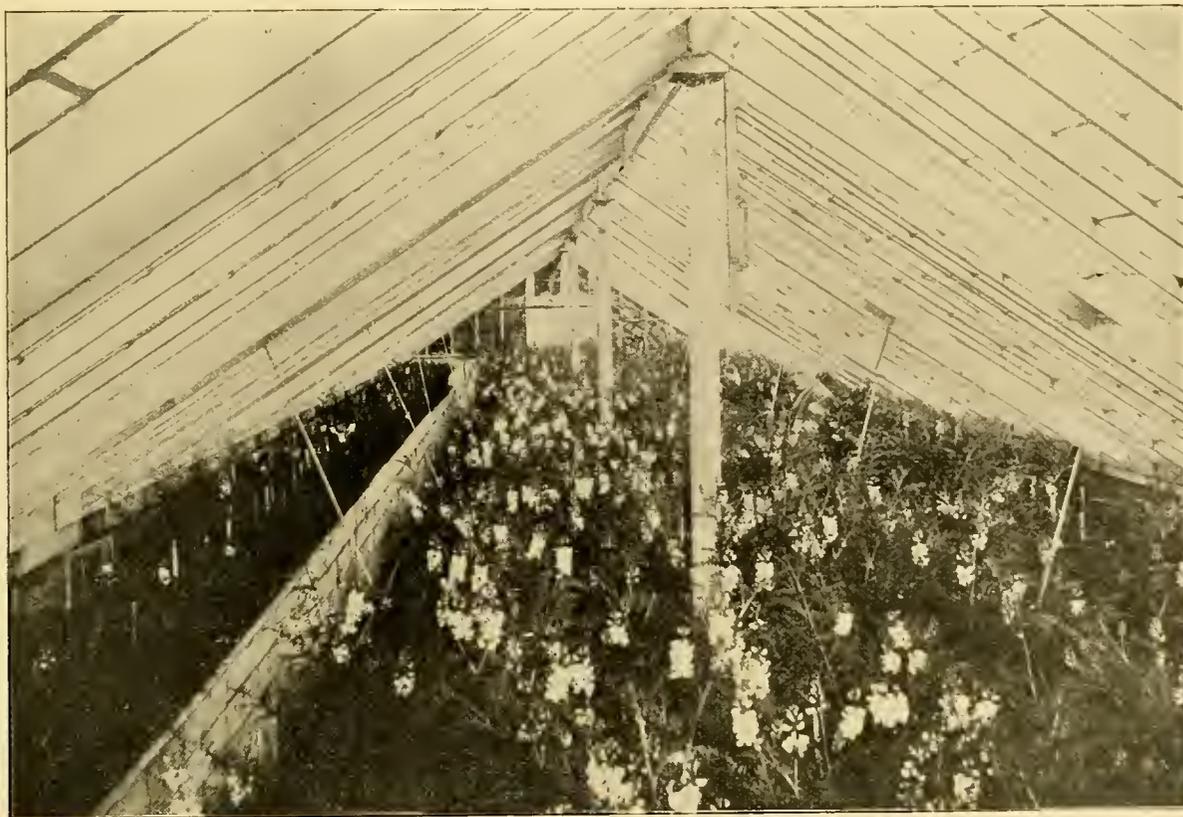
Winter Flowers.

I can not tell if the fashions are changing, or competition urging, but evidently the specialty growers are breaking into greater variety. The rose men are taking up with chrysanthemums and carnations, the chrysanthemum men with cannas and seeds, the lily men with nursery stock, the nurserymen with "laying out," and the orchid men with bougainvilleas. But all the true progress in American floriculture seems to have been made where the grower has confined himself to one, or a few, well chosen plants. It is well that the market grower can concentrate his attention when it produces such results as have been witnessed with forced roses, carnations and chrysanthemums.

It is the luminous city florist who can best dispose of and properly display a novelty. It matters not from whence he derives his light, it beams upon the customer. Very often his knowledge of plant names and methods of culture are sadly deficient, but although his customers realize it they can't correct him to a great extent, and his missionary work continues. He will in time come to be understood.

The public conservatories which are constantly being added to at the centers of population will in time produce more or less of a revolution, and the city grower will undoubtedly find himself trying to attract at least a portion of the enthusiastic populace to his private show. How much more he is doing this than his father ever did, perhaps he scarcely considers. It is to those whose greenhouses and grounds are accessible that the value of a variety sufficient to keep a "show house" attractive will commend itself.

December is a dull month over most of the northern temperate regions, and it is not until the sub-tropics are reached that flowers can be looked for in quantity. Where the daily temperature reaches from 60° to 70°, falling at night to 40° or 50° for a short time only, there the churches can decorate with roses from the hedges, tree fern fronds from the forest and rhododendron flowers from the copse. Perhaps the showiest garden



MR CLIFFE'S HOUSE OF SWAINSONA.

plants in such places are derived from the southern hemisphere where spring and summer prevails and plants bloom naturally at the bidding of a Christmas sun.

Mandevillea suaveolens, show peleronums, heliotrope in hedges, fuchsias, cianthus, acacias, are in profusion in the cooler climates, and bougainvilleas, bigonias, combretums and ipomœas where it is warmer. But occasionally among all these children of a southern sun some indigenous plant will compete for honors, and carry them off. The most gorgeous floral spectacle I ever saw broke upon me in the midst of a leafless, dried and almost parched tropical forest. It was a moderate sized tree of *Butea frondosa*. It varies in size as apple trees vary, and during the dry season becomes denuded of leaves as they do. About Christmas or New Years these bare branches, limbs and even the trunk becomes clothed with flowers, thickly as *Cercis canadensis* or japonica is clothed—but the flowers are like the single flowers of *Erythrina cristagalli*, in bunches of three or four together as the red buds are, and brighter by far than the coral flowers. My! if a florist could produce such a New Year's show as this would he not advertise himself?

But few orchids are found where it is so warm as the dry foothills where these beauties grow; in the zone above where the moisture begins to condense and form clouds there they appear, and with them I think one of the most beautiful purple and gold flowered climbers I have ever seen, *Thunbergia Hawtayneana*. This plant is not large and it is susceptible of pot culture. I have seen this flower described as scarlet, but I have no doubt that the newer dictionaries such as Johnson's or Nicholson's have corrected such statements. Vandas grow at the same elevation, and above them ærides, sacco-

labiums, dendrobiums and cœlogyues. Above 5,000 feet the night temperature begins to drop below 60°, and the orchids are rarely found on trees, but are represented by terrestrial species.

I have spoken of *Mandevillea suaveolens* as a Christmas flower, and I am reminded that I have never heard of its flowering in the United States other than California. I have tried it whenever I could, for I am fond of testing the effect of climate upon known characters such as this—but only once—in the lake country—did the plant grow healthily.

Fragrant flowers are commonly appreciated, and the deliciously sweet *Gardenia citriodora* ought to be well tested by some one. Who knows what bench culture might do for it? *Chimonanthus fragrans* and *Osmanthus fragrans* are known but *Luculia gratissima*, although written about, is scarcely ever seen. It needs planting out in a camellia house or rather cool conservatory. Such sweet flowers as these in a florist's box are never forgotten. It is wonderful how a perfume is remembered.

There are a host of things which the florists use as Christmas flowers, hegonias, cannas, epiphyllums, euphorbias, cestrums, hippeastrums, impatiens, passion flowers, *Solandra grandiflora*, *Thrysanthus rutilans*, *Tibandia pulcherrima* (or possibly agapetes nowadays). There is a beautiful rose colored shrub flower growing on the Pulney Hills, locally called the "hill currant" (because its preserved fruits resemble currants) which would be a gem in conservatories.

The varieties of the true *Rhododendron arboreum* and *R. nilagericum* are naturally Christmas flowers, and planted out in English conservatories they flower at that time; florists I notice take to the *rhododendron* as an Easter flower to

some extent, and it is possible that if some attention were paid to early varieties of arboreum blood, etc., such as *Nobleanum*, *Gloire de Gand*, *superbum*, *princeps venustum*, *Chandlerii*, *campanulatum* and so on, very pleasing results might be had for Christmas.

Again, the epacris is rarely seen anywhere but at Boston. But possibly such varieties as *Exquisite*, *Fireball*, *Mont Blanc*, *picturata*, *racemosa*, etc. might be grown elsewhere. There is but little risk in trying these, for if you fail you fail and there's the end on't, if you succeed you can never be loaded with anything worthless or unattractive in an epacris.

Trenton, N. J. JAMES MACPHERSON.

About the Kew Lectures.

The paper in your issue of January 12 by Mr. Michael Barker gives a distinctly false impression of the character of the Kew lectures. They are not botanical lectures—not one in a hundred of them. They are everything other than botanical, except in so far as botany can aid the lecturer in correctly illustrating his subject. A moment's reflection will convince Mr. Barker that this must be so. The men who go to Kew are as he says good gardeners before they go there. They have been trained in various places—Chiswick, Frogmore, Dalkieth, Glasnevin, or perhaps in all of them. Not more than one per cent of them expects to become "professors," and botanical lectures would be distasteful to them. The lecturers know this, and like sensible men they lecture upon matters of practical economic importance. The herbarium can take care of the world's botany, and now and then one of the young gardeners (like W. B. Hemsley, F. R. S.) elects to cast in his lot there—but very rarely.

Kew has done the most good in the world I think in broadening men, so that they know what to leave undone. The result is that anywhere you may go in the British Empire you will find them managing institutions which are called botanical stations or gardens maybe—but which are really places where the economic culture of the various countries originates, and sometimes develops. I doubt if all of our experimental stations can hope to help the world to the extent that two Kew men have done in the cheapening of quinine.

JAMES MACPHERSON.

Trenton, N. J.

Adiantum Farleyense.

The accompanying engraving is from a photograph of a house of *Adiantum Farleyense* at the establishment of Baker Bros., Kansas City, Mo. In regard to the culture of this *Adiantum* Messrs. Baker Bros. write:

"The plants seen in the picture are 15 months old. They are in 12 and 14-inch pots and are from 4 to 5 feet through.

"Our experience in growing for specimen plants is that they should never become pot-bound and should be shifted on until you get them to the size you want them. Then they should be allowed to become thoroughly pot-bound. The advantage of this is to give the fronds the pink tinge that is so desirable in this queen of all ferns. They will never catch the color spoken of while in rapid growth although we could never see that it injured the plant any if it should become pot-bound, and was shifted afterwards, but this will check the growth for the time being.

"We could never see the advantage of keeping the plant to a single crown and would rather see the plant have as many crowns as possible—the more the better as they will thereby make a larger and finer plant. We have tried plants with single crowns and were never able to make what we call a good specimen plant. Our idea of a specimen plant is that it should be a dark green at the base gradually changing to a lighter green advancing toward the top, changing again so that the crown should be a beautiful pink.

"We use most any kind of good rich soil that will drain well. Instead of using broken pots for drainage we fill one-third of the pot with sphagnum moss. Never allow them to dry out while growing on for specimen plants. There is no reason why they should be a difficult plant to raise. It is almost impossible to kill the crowns. When crowded for room we have kept them under the benches for months at a time. Of course the leaves would disappear while under such treatment, but when again placed up on the benches and given care and attention the plants would start up and make as good stock as anything we had on the place. They will stand more abuse and neglect without dying than any plant we know of, and with care the most abused plants can be made the picture of health."

New York.

The annual dinner of the New York Florists' Club which took place on the evening of January 19 was an occasion long to be remembered by those who participated. There were about sixty gentlemen present, including Messrs. Edwin Lonsdale, Chestnut Hill, Pa., O. P. Bassett, Chicago, A. H. Wingett and E. J. Norman, Lenox, Mass., Mr. Russell, Stockbridge, Mass., and Roderick Camp-

bell, Utica, N. Y., as invited guests. The show of flowers on the tables was magnificent. Every grower who had contributed—and there were nearly twenty of them—had evidently selected his very choicest specimens, the splendid new roses Mrs. J. Pierpont Morpan and Belle Siebrecht and carnation Dean Hole holding a prominent place. The flowers were artistically arranged by Mr. Warendorf, who also had decorated the walls and ceilings with a profusion of wild smilax, etc., and in front of one of the mantels was a grand *Cattleya Triaxæ* bearing forty-two blossoms.

President Allen opened the second division of the entertainment with a few words of hearty welcome to the visitors, and then introduced Mr. C. B. Weathered as toastmaster. This gentleman after the applause which greeted him had subsided began by facetiously alluding to the sleepless nights and tired days he had spent in preparation for this duty, asserting that he had nearly bankrupted himself in buying books that he might learn the rules and acquire the art of being a toastmaster; and then called upon Ex-President O'Mara to respond to the toast "Our Nights." Mr. O'Mara was in his happiest vein and his infectious good nature and quick repartee to the witty sallies with which he was bombarded threw the whole crowd into a mood of merry disorder, which for a time gave the astonished toastmaster all he could do to handle. Mr. O'Mara said that this was his first participation in one of the club's nights, so he could not say much on the subject, but he found it hard to be serious in such pleasant company. He complimented the club on this opportunity for social intercourse and himself on having been relieved of the cares of office.

President Allen was next called upon to speak on the future of the New York Florists' Club. He claimed that if this or any other club is to be a success it must be run as any other business venture; there must be a deep interest taken in it and plenty of work done. He asserted that the florists' clubs had been a great factor in the wonderful improvement in the quality of the flowers grown in recent years and made an earnest plea for increased attendance at the monthly meetings.

The Society of American Florists was represented by its president, Edwin Lonsdale. He alluded to the movements in the past which had resulted in the formation of this and other florists' organizations and spoke hopefully of its future. Referring to the approaching meeting of the executive committee at Pittsburg he urged that all those interested should contribute suggestions in advance as to what they believed to be best for the welfare of the society and the profession. As a step in the interest of floriculture he advised that every one having a home should take home a plant or two and test its value as a house plant so that our knowledge in this important direction might be increased. The mention of a home brought suggestions from various parts of the room to Mr. O'Mara that he take unto himself a wife and provide himself with a home and later on start a nursery, and that versatile gentleman responded with a story of the results which had followed the publication in the papers of some matter regarding "hot water plants;" orders for said plants having been received by his firm from far and near, which orders he said he would have been glad to transfer to his friend Weathered had he thought that gentle-

man would have been willing to supply them at twenty-five cents a piece.

Mr. Roderick Campbell was the next speaker and he complimented the club on its evident prosperity and pleasant social relations, praised the splendid display of flowers on the tables and spoke of the elevating influences of the profession.

Mr. J. N. May who was next called upon was greeted as had been his predecessors with a lusty rendering of the good song "For he's a jolly good fellow." Mr. May pointed to the display on the tables in demonstration of the great advances being made in floriculture at the present time and expressed the hope that the New York Club would soon be able to boast a permanent home.

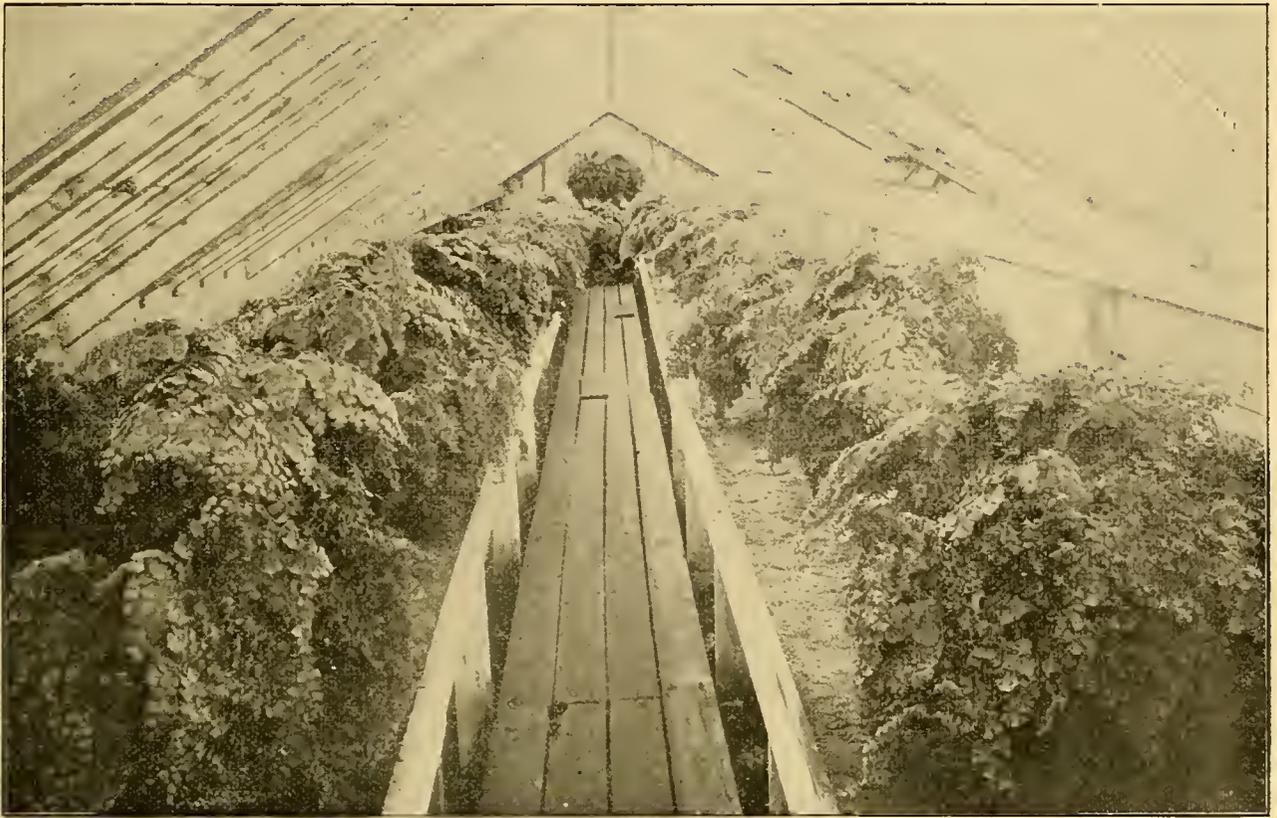
Mr. Norman, from Lenox, Mass., was then introduced as coming from the garden spot of America, a place where angels would be glad to live, and also as president of one of the finest gardeners' organizations in the country, to which he responded briefly.

Mr. W. J. Stewart then responded for the horticultural press. He referred to the great fascination which horticulture possesses for every one and the interest taken in anything horticultural by the daily press, expressing the belief that the inaccuracies frequently given currency through these journals are in many cases chargeable to people in the trade. He reminded his hearers of the great work which the modern horticultural press had done for American horticulture and how much of a necessity it has come to be and solicited for it the support and sympathy which it is so well entitled to.

Mr. Alex Burns in responding for the commission men told of the peculiar relations between grower, dealer and retailer and prescribed the golden rule as the best remedy for any existing misunderstandings. The next gentleman called upon was Mr. E. E. Wells, who was asked to speak in memory of the two members who had passed away during the past year, Mr. Thos. L. Russell and Mr. L. Fremin, which he did in a most eloquent and feeling manner, concluding with a beautiful selection from Bryant's *Thanatopsis*.

After this the speeches were informal and were interspersed with humorous songs and recitations by Wm. Plumb, Fred Weir, Sam'l Burns and Mr. Russell, and it was well past the midnight hour when with clasped hands Auld Lang Syne was sung and the merry festivities came to an end.

More than fifty members of the club accepted the invitation to go to New Rochelle and see the new rose Belle Siebrecht as under culture there. Messrs. Siebrecht & Wadley proved themselves to be most generous hosts and the occasion was one that will never be forgotten by those who were so fortunate as to be present. Stages were in readiness to take the party up from the station and on arrival at the greenhouses after overcoats had been doffed the guests were conducted to one of the long conservatories, where under a canopy of palms, orchids and pitcher plants and amid most beautiful surroundings they found a table laden with good things and they were invited to sit down and partake, a few words of welcome being said by Mr. Siebrecht. The tables were handsomely decorated with vases of the new floral candidate and jardinières of growing plants. This feature of the entertainment having been duly disposed of a couple of hours were spent in inspecting the various houses and their contents, seven houses



BAKER BROS.' HOUSE OF ADIANTUM FARLEYENSE.

being found filled with the new rose. Judging from the clean healthy condition of the plants and the vigor and free blooming qualities shown this rose gives promise of becoming a favorite and a valuable market variety, and the rose men present were at once favorably impressed with it. Among the visitors from a distance were Robert Craig and J. A. Shellem, Philadelphia, R. H. Warder, Cincinnati, J. B. Keller, Rochester, and R. Loeben, Milton, Pa. On the return trip it was announced that a similar excursion to Summit, N. J., would be participated in on invitation of Mr. J. N. May.

By mutual consent Mr. August Rolker withdraws from the firm of August Rolker & Sons to devote his whole time to the auction branch of the business, which he will continue in company with his son as A. & F. Rolker. Messrs. Winfried and Joseph E. will continue as the firm of August Rolker & Sons, giving their entire attention to the florists' seed, bulb and supply business. Each firm liquidates the debts of its previous branch. Mr. Winfried Rolker reports the supply trade as rather in excess of anticipations and florists' seed orders coming in early and brisk, with counter sales very satisfactory.

It is our sad duty to record the death of the wife of Mr. U. G. Scollay, which occurred on January 17, after a long illness.

The absurd story circulated by the metropolitan journals regarding the extravagant floral decorations to be placed on the casket of the deceased Mrs. Astor is false in every particular. Neither is the body in a tomb but is buried in the ground. If, as is asserted, some individual in the trade is responsible for the yarn its author is particularly deserving of severe censure, for such things are an undoubted injury to the florist trade.

Chicago.

The past week has been one of the busiest of the season; parties, receptions and weddings are now the order of the day. Most of the boys have their hands full, the patronage being pretty well divided. Among the notable events of the week was the reception of Mrs. Arthur Caton; O. J. Friedmann did the decorations, which were quite elaborate.

On Wednesday one of the swell weddings took place at Grace Church which was beautifully decorated for the occasion by C. A. Samuelson. An arch the entire width inside the chancel railing and 25 feet high was made of green thickly studded with large clusters of *Harrisii*, carnations and Romans. *Harrisii*, which formed the principal decorations everywhere, were banked in lavish profusion about the altar, flanked on either side by superb groups of palms. The chancel railing was draped with southern smilax. It was altogether one of the most elaborate decorations ever seen at this fashionable church. At the house where the reception was held the decorations consisted of palms, asparagus draping, and a profusion of Bridesmaid roses. The center piece for the table consisted of a large silver bowl filled with about 100 of the finest Bridesmaids seen this season. Around the bowl was placed a heavy wreath of Farleyense from which radiated graceful sprays of lily of the valley.

The reception of Mrs. E. G. Gross on Thursday called for a magnificent display of orchids and American Beauties. This decoration was in the hands of Joseph Curran and was executed with rare good taste. With asparagus for draping and groups of palms here and there, the orchid predominated all over the house.

Cattleyas constituted the bulk, but almost every other form of the orchid family was well represented by such as *lælias*, *dendrobiums*, *phalænopsis*, *cyripediums*, *odontoglossums*, etc. In one room of the house only the orchid was missing, and here American Beauty reigned supreme.

There were numerous other receptions. E. Wienhoeber & Co. were crowded all the week with large orders. On the west side H. F. Halle and I. C. Silliman had a number of decorations.

The shortage of stock still continues and since the cold snap has set in the supply is less than ever. With an active local demand and shipping orders piling in at a lively rate, there is a scramble for stock even worse than at holiday times. Prices have made a sharp advance all along the line and more particularly on first-class roses. Good Bridesmaid bring 6 to 8, Testout is very scarce at 6 to 8, Brides and Mermets 6 to 7, Woottons and La France 5 to 6, Perles 3 to 4.

Mr. T. V. Evans of Riverside, lost part of two greenhouses and his boiler house by fire January 8. Loss about \$500. No insurance.

Last Thursday fire in the warehouse of W. W. Barnard & Co. at 186 Kinzie street, completely destroyed their catalogue, office and packet seed department. The department devoted to florists' seeds being at their Clark street salesroom the fire will not interfere with the regular run of business. The loss is fully covered by insurance.

At the meeting of the Florist Club last Thursday evening there was an interesting discussion upon the cultivation of pansies, the subject being opened in a brief paper by Mr. W. L. Palinsky. Mr. P. grows from fall sowings and carries the plants over winter in frames without

sash, covering merely with leaves, until early spring. In the discussion Mr. Chas. Held said he had found it better to sow in the greenhouse early in the year and later transplant to frames. He had found that with the fall sowing the plants were apt to become too long and drawn up before May 15 and but few sales were made before that date. In response to a question Mr. Held said he set the plants about 2½ inches apart in the frame, and the other growers thought the tendency to draw up was due to his planting so close. None of the others planted closer than 3½ inches, and some as far apart as 4½. President Kidwell followed the plan adopted by Mr. Palinsky except that he kept the frames covered by sash all winter, and placed his covering of straw over the sash and not on the plants. All agreed that the main item was to keep the beds frozen after frost had once entered them. And the experience of all was that the large flowered strains were the best sellers, the public as a rule seeming to demand size rather than rich colors.

It was proposed that the club give its annual ball soon and it was decided to take action regarding same at the next meeting. Features of the next meeting will be an essay by Mr. E. Wienhoeber, and a lunch served in the club room.

Boston.

There has been something like a little revival in the cut flower trade during the past few days. Roses of good quality have been really scarce and there has been a good demand at advanced prices for these as well as for other lines of choice cut flower stock. Growers and dealers both feel encouraged and look for a season of prosperity from now until Lent comes in, at least.

Much interest is manifested in the approaching meeting of the American Carnation Society, and especially in the exhibition, which is to take place at that time. The local carnation growers will undoubtedly make a display of considerable extent, and large contributions are expected from all over the country. Arrangements have been made for the reception and caring for all shipments coming by express for exhibition purposes and a full force of experienced flower handlers will be in attendance at the hall on the morning of February 21 for this purpose. Boxes addressed to Mr. A. H. Fewkes, Horticultural Hall, Boston, will be properly cared for.

Mr. A. H. Hews of North Cambridge gave an interesting talk before the Mass. Horticultural Society on the manufacture of flower pots, on Saturday, January 19. He told of the early history of pot manufacturing, the most ancient art known to man, and described the old methods of hand work and the revolution caused by the introduction in recent years of machinery, also the good results from the adoption of standard sizes, the whole essay proving very interesting to the large audience present.

Providence, R. I.

The Rhode Island Horticultural Society held its annual meeting on the evening of January 16. Officers for the ensuing year were elected as follows: Vice-presidents, L. W. Russell, T. K. Parker; secretary and treasurer, C. W. Smith; librarian, Thomas K. Parker, botanist, Professor W. Whitman Bailey; board of trustees, Silas H. Manchester, E. I. Nickerson, N. D. Pierce Jr., J. D. Fitts, J. G. Massie; exhibition committee, S. H. Manchester,

J. G. Massie, H. T. Root, James Nisbet, F. P. Hunt, N. D. Pierce Jr.; finance committee, Joseph C. Johnson, J. G. Massie, C. G. Godfrey; committee on lectures, L. W. Russell, C. W. Smith, auditing committee, E. I. Nickerson, Henry F. Manchester, Gilbert H. Hagan; committee on necrology, T. K. Parker, George Hunt. President Fanning was tendered the honor of re-election, but declined, and the office will be filled at the next meeting. Ten members have died, nine have withdrawn and thirty-one added during the past year.

Mr. Cyrus C. Armstrong, who was for a number of years secretary and then president of the R. I. Horticultural Society, has disappeared under circumstances which point to either suicide or death from exposure.

PITTSFIELD, MASS.—The Lenox Horticultural Society will hold its first annual ball at Sedgwick Hall, Lenox on Jan. 29.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant ads. not admitted under this head.

SITUATION WANTED—First-class place for first-class man as foreman; references exchanged. R. C. care Anchorage Rose Co., Anchorage, Ky.

SITUATION WANTED—By a good gardener and florist; married; German; 15 years' experience. Best of references. K. D. care Am. Florist.

SITUATION WANTED—In good place as assistant; 8 years' experience; good references. J. M. care Capt. Robinson, Hazlewood, Pittsburg, Pa.

SITUATION WANTED—As foreman or to take charge of department, palms, ferns, violas, mums, etc. Address C. HOKANSON, Sibley, Ill.

SITUATION WANTED—By practical gardener in private place, park or florist establishment; age 35. Scotch, married. HOKTUS, care Am. Florist.

SITUATION WANTED—Young man 21 would like a place in a medium sized town, east; can propagate; state particulars and address EAST, care American Florist.

SITUATION WANTED—By competent young man as mail and express packer or order clerk, 5 years' experience in large retail and wholesale place. C. W. 100, care American Florist.

SITUATION WANTED—By Marcus foreman or assistant; 12 years' experience in all branches; single, sober and reliable. Address "PRACTICALLY," care American Florist.

SITUATION WANTED—By a young man with good experience in the seed line; knowledge of modern languages; good penman; can furnish best references. "O. Z." care Am. Florist.

SITUATION WANTED—By experienced rose grower, foreman and reliable propagator, as foreman; competent to take full charge; East or South preferred; references. X. Y. Z. care Am. Florist.

SITUATION WANTED—By a young man who has 8 years' experience in growing both fur cut flowers and the mall trade; can give good recommendations; age 24, single, American. Address FRED C. MORLAN, Salem, O.

SITUATION WANTED—By a single man; 9 years' experience; steady and sober; thoroughly understands growing roses and chrysanthemums. Capable of taking charge of commercial or wholesale. Address GROWER, care American Florist.

SITUATION WANTED—As foreman by first-class grower, competent in every branch, 7 years' European, 8 years' American experience; commercial or private; German, married. A. EISENHARDT, Sunnyvale Greenhouses, Walden, N. Y.

SITUATION WANTED—By competent man as gardener and florist; thoroughly understands the growing of flowers, fruits and vegetables under glass; excellent references; private place preferred. Address A. G., 356 Cumberland St., Brooklyn, N. Y.

SITUATION WANTED—By an assistant gardener. Age 18 years. In a good private family preferred; able, willing and quiet at work; a good recommendation from his present employer. ERNEST HAYNES, The Gardens, Yantle, Conn.

SITUATION WANTED—By rose grower, 6 years' experience, married, age 26; references John H. Dunlop, Toronto, Ont., and Alex. Montgomery, Waban Rose Co's, Natick. State wages, etc. DAVID COOPER, Waban Rose Co's, Natick, Mass.

SITUATION WANTED—By a young Dane in a commercial place; is used to greenhouse work; speak fairly good English; is sober and has good recommendation; western states preferred. Address S. BERTTESON, care Nissen, 250 Division St., N. Y. City.

SITUATION WANTED—As manager or foreman in a large commercial place; a good propagator, grower of roses, carnations, chrysanthemums, palms, ferns and general stock; single, 20 years' experience; state wages. Address F. FLORIST, 283 E. 43d St., Chicago.

SITUATION WANTED—As foreman or headgardener; 14 years' experience—several in the nursery and seed lines. Married, no family; age 31 years. Been in present place nearly 4 years, but desire to change. When answering, please state terms. Address A. FLORIST, care American Florist.

SITUATION WANTED—By orchid grower, commercial or private; 12 years' experience in several of the most important nurseries in Holland, France and Belgium; also very successful grower of other exotic plants; Dutch nationality. Address ROSLIN CONSERVATORIES, So. Framingham, Mass.

SITUATION WANTED—German, 33 years old and married, who has been foreman in large commercial places in this country for the last 8 years, seeks situation as such after Feb. 15th. Has had 7 years' European and 12 years' American experience. CHAS. JOHNSON, care Henry Timmer, 804 Communipaw Ave., Jersey City, N. J.

SITUATION WANTED—At once by practical, energetic florist and nurseryman, aged 24, single; either private or commercial, or in seed store; West preferred. Fully alive to modern methods, wholesale or retail; competent at budding, grafting, propagating under glass, packing and shipping; references from present and past employers. F. E., care American Florist.

SITUATION WANTED—As gardener and florist. Age 29, married, 11 years' practical experience in private and commercial; also 4 years' nursery experience in England and America; well up in roses, carnations, also fruits under glass; good propagator and plant grower, palms, ferns and general stock; English; private or commercial; good references. Address D. D., 1325 N. 15th St., St. Joe, Mo.

SITUATION WANTED—A first-class horticultural architect and builder desires re-employment on contract or otherwise; has been builder for the Anchorage Rose Co. for the last 8 and half years, where my references and buildings will speak for themselves; hot water and steam thoroughly understood. IRA HAYS, care Anchorage Rose Co., Anchorage, Ky.

WANTED—Plant and seed catalogues. Address E. VENZKE, 383 Argyle St., St. Paul, Minn.

WANTED—To buy small florist business of about 5 to 6 thousand feet of glass. Address INDIANA, care American Florist.

WANTED—At once, catalogues and price lists of greenhouse material of all kinds. THE THATCHER FLORAL CO., Louisville, Ky.

WANTED—Catalogues and price lists of greenhouse material, boilers, glass, ventilating apparatus, etc. by ROBT. UXER, Hanscom Park, Omaha, Neb.

WANTED—Gardener and florist who understands landscape gardening and culture under glass; must be thoroughly competent, reliable and sober. Name wages. THE OXFORD BRETRET, Oxford, O.

WANTED—By a first-class concern an AI commercial traveller to sell novelties and a general line of decorative florist plants; only first-class men need apply. Address with full particulars "NOVELTIES," care American Florist.

WANTED—A reliable working florist to take charge of my plant of 6,000 feet of glass, cut flowers a specialty; a good man can get an interest in the business; state wages with board and room. Address P. O. box 51, Edwardsville, Ill.

WANTED—A man competent to act as general foreman of a large ornamental nursery; must be well informed in all the details, especially regarding novelties, their propagation and growth. Correspondence requested. Address NURSERY, care American Florist.

FOR SALE—Splendid florist store in Brooklyn, one of the best; owner going into other business. Address W. J. STEWART, Am. Florist, Boston, Mass.

FOR SALE—Nursery 200-500 feet good land, 4 small greenhouses, also lithouses, many thousands standard roses, leading varieties, also tools, horse and wagon; long lease; nursery near the cemetery; electric cars pass the place; will sell for \$500 cash. Address H. REISS, 257 12th St., Oakland, Cal.

FOR SALE CHEAP—Greenhouse, fifteen acres land, lease to run about three years (and can be renewed), a nice stock of berries of all kinds; greenhouse extra well stocked. Fifteen hundred feet hot-bed sash and all necessary implements. Inquire J. D. LITTLE, Agent for Mrs. E. Wilson, Springfield, O.

TO THE TRADE.

A gentleman with a thorough knowledge of the Nursery, Seed, Bulb and Plant Trade wishes a position in the Wholesale or Retail, or both. Has a first-class connection east of Chicago and Canada. References given; served a six years' engagement with last firm. Apply A. X. Z. care R. & J. Farquhar, Boston.

A BARGAIN.

Several hundred lengths of boiler tubing, as good as new for heating; 16, 15, 14 and 11 ft. lengths, 4-inch diameter. 8c per ft. net on cars here. Also a lot of 3-inch, at 6c per ft. net.

WM. A. WHITE, Staatsburgh, N. Y.

St. Paul, Minn.

While trade since the holidays has not been very brisk it is improving daily. At a time when the social season is at its height one naturally expects the cut flower trade to be at its best, but so far this year the reverse is the rule. Social gaiety reigns supreme while the florists' business lags. Quite a good many funerals have kept some of the boys more than busy, and on Monday last white flowers were at a premium.

In other lines the demand has been equal to the supply, notably so in Beauties and violets. The month has been darker than usual for Minnesota, and this coupled with the fact that most roses are now off crop, is productive of a short cut and inferior stock. Any sudden demand would create a general shortage.

The Society of Minnesota Florists met at the West Hotel, Minneapolis, Saturday evening, January 12. The attendance was not large, owing to the cold, but the meeting was very interesting and several new faces were seen. The feature of the evening was a paper by Aug. S. Swanson on the evils of the contract system for planting the beds in the public parks. His remarks were more especially directed to Minneapolis, as all parks there are planted by contract and the flowers supplied by the lowest bidder. As a consequence the most common bedding plants are used and prices are made so low that there is no money in it for the florist.

Primarily parks are for recreation and enjoyment, secondarily they should as far as possible be made educational factors. Plants are intended to make such places attractive and inviting and at the same time educate the tastes of the people. New varieties should be introduced and planted and a competent superintendent be placed in charge. Under the contract system many of the parks would look better without any plants at all. Certain beds are filled year after year with the same variety of flowers and the love of flowers is not stimulated in the least. Mr. Swanson's paper was well written and contained some strong points.

Mr. J. L. Johnson, with L. L. May & Co., exhibited a wire frame intended to protect Harrisii blooms when being delivered. It was light, easily adjusted, cheap and effective in protecting the flower. The society adjourned to meet in St. Paul one month hence.

The many friends of O. W. Nordquist, superintendent of the Oakland Cemetery greenhouses, will sympathize with him in the recent loss of his little boy.

Double narcissi, jonquils, tulips and Dutch hyacinths are now in the market.

Mr. Frank Berry of Stillwater was a caller during the week. He reports very good sales for the New Year. FELIX.

Worcester, Mass.

A public meeting of the Royal Arcanum was the event that brought out the biggest palm decoration of the season. Lange was the artist and did himself proud. Another notable occurrence was the Light Infantry ball, which was the ball of the season. A great many dress flowers were sold for this occasion, which reminded one of old times, when everybody wore flowers, but society has not been wearing many for some time, probably because it was so "deucedly plebeian." The hall was decorated in light pink, which made a pleasing background for the palm foliage. Thayer did the palm decoration.

Trade has kept up its lively disposition

New Chrysanthemum, PHILADELPHIA.

The great prize winner. Orders booked now for delivery March 15th.

NEW CARNATIONS 50 cents each; \$5.00 per dozen; \$35.00 per 100.
UNCLE JOHN, white; THE STUART, scarlet; SWEETBRIER, pink; SAMBO, crimson; \$1.00 per dozen; \$5.00 per 100, EDNA CRAIG, WM. SCOTT, 40c. per dozen; \$5.00 per 100.

NEW YELLOW DAISY (1-1011c. d'Or), plants from 3-inch pots, \$1.00 per dozen; \$6.00 per 100.

Wholesale Price List of new and rare plants sent on application.

C. EISELE, 11th and Jefferson Streets, Philadelphia, Pa.

100,000 VERBENAS. THE CHOICEST VARIETIES IN CULTIVATION

Fine pot plants, \$2.50 per 100; \$20.00 per 1000. Rooted Cuttings, \$1.00 per 100; \$8.00 per 1000.

NO RUST OR MILDEW.

PACKED LIGHT, AND SATISFACTION GUARANTEED. SEND FOR CIRCULAR.

We are the Largest Growers of Verbenas in the country. Our plants cannot be surpassed.

J. L. DILLON, Bloomsburg, Pa.

Siebrecht & Wadley,

ROSE HILL NURSERIES,

NEW ROCHELLE, N. Y.



Palms, ORCHIDS, Roses,

and New Plants.

FRESH DRACAENA CANES NOW READY.

ORCHIDS OUR SPECIALTY.

The Best and Largest Stock in the World. New & Rare Foliage & Flowering Plants.

A grand selection for Stove, Greenhouse and Conservatory.

SANDER, St. Albans, England.

WHY NOT TRY

A FEW ORCHIDS?

They are Very Cheap. They are Easily Grown. They Sell Well. They always attract attention in store or greenhouse.

BRACKENRIDGE & CO.,
304 W. Madison St., BALTIMORE, MD.

and the supply of good flowers has been just about equal to the demand, near enough to the short end to keep prices well up; funeral work has been very plentiful.

C. C. Kenyon, who bought out Herick's old stand, has been putting in some very pretty window displays, a combination of white and carmine this week was very effective.

Lange is cutting some very fine Day-break carnations, flowers average 2 1/4 inches with 18-inch stems and splendid foliage. A. H. L.

NAPA, CAL.—Leonard Coates has sold the Napa Valley nurseries to Messrs. Armstrong, Parker & Co., of Mountain View. Mr. Armstrong was for several years superintendent of Timothy Hopkin's Sherwood Hall nurseries at Menlo Park. It is the intention of the new firm to erect extensive greenhouses and rent more land than was held by Mr. Coates, and to go into the business of floriculture to supply the San Francisco market with cut flowers and plants. It is said that two acres will be put into sweet peas this spring, and that other plants will be grown in proportion.

BUFFALO—On January 25 occurred the annual ball of the St. Andrew's Scottish Society, of which Mr. Wm. Scott, the florist, is president.

Chrysanthemums.

... Rooted Cuttings.

Mailed for \$1.00 per 100.

THE FOLLOWING KINDS:

E. G. HILL, MRS. SCHUCHARDT,
LOUIS BOEHMER, WM. FALCONER,
ROHALLION, JOHN LANE.

CASH WITH ORDER.

S. O. STREBY,

Lock Box 77,
UPPER SANDUSKY, OHIO.

Rooted Cutting of CHRYSANTHEMUMS.

Queen, V. H. Hallock, W. H. Lincoln, Ivory, Mrs. Gov. Fifer, at \$1.00 per 100.

Also cuttings Silver Spray, Aurora, Wilder Carnations, at \$1.00 per 100.

OTTO HANSEN, Mont Clare, Chicago.

ROOTED CUTTINGS CHRYSANTHEMUMS

All the best new market sorts, 60c per doz.; \$4 per 100. Best market sorts of previous years, 35c per doz.; \$2 per 100. Ready for delivery Feb. 1st. Also CYCLAMEN persicum giganteum, 3/8-in. \$6.00 per 100. GENISTAS, 5-inch pots, fine plants, \$12 to \$15 per 100. SMILAX, 2 1/2-inch pots, \$2.00 per 100; \$15.00 per 1000. Address J. G. BURROW, Fishkill, N. Y.

Chrysanthemum Etoile d'Or,

(single yellow daisy), plants from 3-in. pots, now ready. Stock limited.

\$3.00 per dozen; \$20.00 per 100. 50 at 100 rates.

S. EDWARDS & SON,

478 Irving Ave., BRIDGETON, N. J.
The cut blooms are very desirable, and bring a good price.

Coleus.

As fine a collection as can be found in the country.

ROOTED CUTTINGS GIANT DOUBLE ALYSSUM, &c. Send for list of prices of Coleus and Carnations.
W. R. SHELMIER,
AVONDALE, Chester Co., PA.

ROOTED CUTTINGS. Good Ones.

Verbenas, 23 varieties, 80c. per 100; \$7.00 per 1000
Heliotropes, Fuchsias and Mums, per doz. 20c
New Giant Alyssum and Lopezia " 20c
Cuphea Llavei and Clear Plant, " 20c
Salvia and Marguerite " 20c
Mexican Primrosea and Ageratum, " 20c
Coleus per 100 75c " 72c
Postage 1c. doz. Cash with order. Send for catalogue.

I. L. Pillsbury, Galesburg, Ill

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26 times, 20 per cent; 52 times, 30 per cent.
No reduction made for large space.

The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to those lines ONLY. Please to remember it.

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

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

Address THE AMERICAN FLORIST CO., Chicago.

EASTER comes on April 14 this year.

A NEW GREENHOUSE, 17x56, is to be built for the Biological department of the University of Pennsylvania.

OBITUARY.—Josephine Baker Long, the wife of Elias A. Long, formerly editor of *Popular Gardening*, died last week at her home in Buffalo. Mrs. Long has been suffering from lung trouble for two years past and though everything possible was done to arrest the progress of the disease it finally resulted in her death. Mr. Long will have the sincere sympathy of his many friends in his affliction.

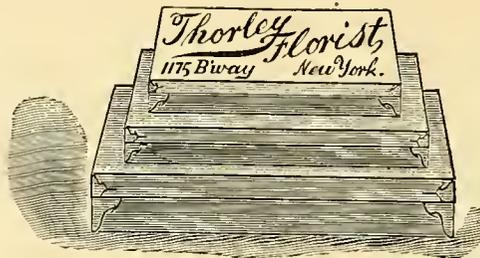
WE ARE advised that at the Pittsburg meeting of the S. A. F. the society will be invited to hold the convention of 1896 in Asheville, N. C., where Vanderbilt is creating his great country estate, and where the genial J. W. C. Deake and the Idlewild Floral Co. hold forth. Mr. Deake is the moving spirit in the matter, as also in the North Carolina Florists' Association, which will hold its annual meeting in Newbern this year.

MESSRS. I. N. Kramer & Sons, Cedar Rapids, Ia., send us a photograph giving a partial view of their chrysanthemum show last November. The display was certainly very extensive for an individual exhibition; some excellent plants and flowers are included, and the arrangement was very effective. Were it not that we have printed so many pictures of a similar character, and have already engraved others for which we have not yet found space, we would be glad to publish this and other similar ones that have been sent us by subscribers.

Catalogues Received.

D. M. Ferry & Co., Detroit, Mich, seeds; H. P. Kelsey, Kawana, N. C., hardy American plants; National Plant Co., Dayton, O., roses and greenhouse plants; J. M. Thorburn & Co., New York, seeds; Peter Henderson & Co., New York, wholesale plant and seed list; Carter's, London, Eng., seeds; R. & J. Farquhar & Co., Boston, seeds, plants and bulbs; J. M. McCullough's Sons, Cincinnati, O., seeds, plants and bulbs; Nanz & Neuner, Louisville, Ky., seeds, plants and bulbs; W. Atlee Burpee & Co., Philadelphia, seeds; T. W. Wood & Sons, Richmond, Va., seeds; Geo. B. Moulder, Smith's Grove, Ky., aquatic plants; H. Cannell & Sons, Swanley, England, seeds; same, chrysanthemums.

MATTOON, ILLS.—Cut flower trade has been very brisk this winter and prices good. Kirchgraber & Son have completed two new houses, one 20x40, the other 10x80.



The boxes as they appear when set up for use.

We make them in a sufficient number of sizes, including for violets, to meet all necessary requirements.

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Hardy Cut Ferns, BOUQUET GREEN,

Laurel and Green Festooning, Wreaths, Etc. SPHAGNUM MOSS IN ANY QUANTITY.

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Z. DeForest Ely & Co., WHOLESALE COMMISSION DEALERS IN CUT FLOWERS.

Roses, Carnations, Chrysanthemums, Valley, Violets, etc.

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SAMUEL S. PENNOCK, Wholesale Florist

REAR OF 42 S. 16th STREET, Philadelphia, Pa.

Ellis & Pollworth, WHOLESALE CUT FLOWER GROWERS' AGENTS,

Dealers in Florists' Supplies—Wire Work. Introducing of the new Scarlet Carnation "LIZZIE GILBERT." Send for prices. 386 Broadway, MILWAUKEE, WIS. Box 75. Phone 1273.

Tuberous Begonia Seed.

First Prize on plants and flowers, Mass. Hort. Society, Sept. 6 and 7. Flowers 4 to 5 inches in diameter, white, yellow, pink and crimson of every possible shade and endless combinations of tints, penciled edges, etc. Carefully hybridized seed, separate colors or mixed, 500 seeds, 50c. LADY CAMPBELL VIOLET, from original stock, \$1.00 per 100; \$12.00 per 1000. C. E. WELD, Roslinda's, Boston, Mass.



TRY DREER'S GARDEN SEEDS, Plants, Bulbs & Requisites. They are the best at the lowest prices. Trade List issued quarterly, mailed free to the trade only. HENRY A. DREER, Philadelphia, Pa.

Cycas Leaves. FRESH CUT each 75c. VAUGHAN'S SEED STORE, P. O. Box 638, Chicago.

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Folding Flower Boxes are the best and most convenient ever put upon the market. They are made from board, manufactured especially for these goods, and made so as to resist moisture, thereby keeping the flowers fresh, and the box holding its shape.

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Asparagus Plumosus Nanus.

Cut Strings, 8 to 10 feet long, 50 CENTS.

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495 Washington St., BUFFALO, N. Y. SHIPPING ORDERS CAREFULLY ATTENDED TO. OTHER SPECIALTIES: Florists' Supplies, Wire Designs, Bulbs, Long's Florists Photographs. Catalogues, Lists, Terms, etc., on application.

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CUT SMILAX.

15 Cents per String.

Elegant Stock Now Ready.

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 SEEDS, BULBS AND ALL
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J. B. DEAMUD & CO.
WHOLESALE CUT FLOWERS,
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 HEADQUARTERS FOR AMERICAN BEAUTIES.

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 Our Roses best them all, in quality.
 Headquarters for fine American Beauties.

NILES CENTER FLORAL CO.
 WHOLESALE GROWERS OF
CUT FLOWERS OF ALL KINDS
 SHIPPING ORDERS will receive our special attention. Send us a trial order.
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 Consignments solicited. CHICAGO.

ROGERS PARK FLORAL CO.,
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We are prepared to fill your orders with first-class flowers. Give us a trial order.

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 ALL STOCK IN FINEST GRADES.
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 Telephone Call 1307 38th St.

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" Bride, Watteville, Bridesmaid.....		4.00@5.00
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Cattleyas.....		15.00@24.00
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 Successor to PECK & SUTHERLAND,
 Successors to WM. J. STEWART.
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 WHOLESALE.
 67 Bromfield St., BOSTON, MASS.
 New England Agent for the GREAT ANTIPEST.

WHOLESALE FLORISTS
 JOBBERS IN
 FLORISTS' SUPPLIES,
 FLORISTS' VASES.
 METS, BRIDES, GONTIERS, CARNATIONS, ALWAYS ON HAND.
 1 Music Hall Place, BOSTON, MASS.
 HORTICULTURAL AUCTIONEERS.

THE LEADING FAVORITES:
American Beauty,
Bridesmaid,
Meteor,
Testout,
 And all other desirable roses, grown especially for first-class trade.
BURNS & RAYNOR,
 Wholesale Florists,
 49 West 28th St., NEW YORK.

THOS. YOUNG, Jr.,
Cut Flowers,
 WHOLESALE,
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 WHOLESALE
FLORIST,
 32 West 30th Street, NEW YORK.
 Roses Shipped to all points. Price list on application.

Edward C. Horan,
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WHOLESALE • FLORIST.
 Careful Shipping to all parts of the country. Price list on application.

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THEO. ROEHR,
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FLORIST,
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 Established 1879.

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 ESTABLISHED 1884.

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J. BOLGIANO & Co. is the name of a new seed firm at Baltimore, not the same as J. Bolgiano & Son.

VISITED CHICAGO: W. Brotherton, A. H. Goodwin, J. E. Northrup, J. T. Huntington, A. L. Rogers.

LANSING, MICH.—The Maynard & Coon Nursery and Seed Co. has been incorporated with headquarters at Walker. Capital stock \$5,000. Incorporators: James C. Maynard, Dennis Coon, Alex. Hamilton.

Cleveland.

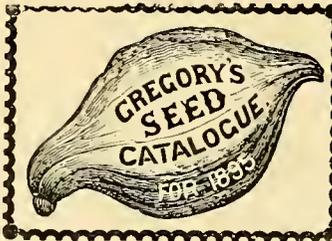
Since the holidays trade has been spasmodic, but summed up as a whole rather slow for January, and not by any means keeping pace with the business of last fall. Violets do not move so well, but the quality is not so good as earlier in the season. There is always a good demand for this modest flower during the Lenten season when other more pretentious flowers take the back seat. Bulbous stock of all kinds is now improving daily, and although tulips have been in the market since the first of December—they are only now salable, as the early ones were too short stemmed and the majority "cripples." The new crop of valley coming in is the finest seen here in years, and is quite an improvement on the cold storage valley in the market at Christmas. Carnations are improving slowly, but with the advent of longer days and more sunlight they lose that tendency to "go to sleep" after being exposed for sale the second day.

Wm. Brinker, formerly a carnation grower of Alliance has opened a cut flower and seed store on Erie street.

W. Gamble has moved from the Cyclorama building to 329 Prospect street. This is decidedly "up town" for business, but the firm is pleased with their new location, and in time expect to build up a good trade. L. F. D.

INDIANAPOLIS, IND.—The ninth annual meeting of the Society of Indiana Florists will be held in this city Monday, Feb. 4. The program includes an address by Mr. Fred Dorner, Lafayette, Ind., on "Florists clubs and societies; what can be done to make them more successful," and one by Mr. E. G. Hill, Richmond, Ind., on "The exhibitions of 1894." Copies of the full program may be had on application to the secretary, Mr. W. G. Berterman, 37 Mass. Ave., this city.

NEW BEDFORD, MASS.—The annual meeting of the Gardeners' and Florists' Club was held on January 14, when the following officers were elected: President, Peter Murray; vice-president, Peter C. Keith; treasurer, Robert Taber; recording secretary, C. J. Wood; Finance committee, William Keith, Robert Mitchell and James Garthley; Executive committee, Wm. Keith, Peter C. Keith, Robert Mitchell. At the conclusion of the regular business a supper was served, and during the evening John J. Roney, in behalf of the club, presented Robert Mitchell an elegant whip with gold trimmings.



THE most successful farmers and gardeners buy their seed directly from the growers; for this reason we raise largely the most risky kinds, especially Cabbage and Onion Seed. This latter is extra fine this season. No catalogue contains more varieties of vegetable seed, and none more of the new that are really good—see outside cover for an illustrated selection from our new specialties, which we will sell at half rates. Catalogue free. J. J. H. GREGORY & SON, Seed Growers, MARBLEHEAD, MASS.



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FRESH SEED; CROP '94.
OZ. \$1.00; PKT. 25c.

Largely used for veranda boxes and centers of vases. A very useful plant and easily raised from seed. Grows rapidly; will stand a lot of rough usage, and often takes the place of a valuable palm as a pot plant. I make a specialty of choice Flower Seeds for Florists. 18 years' experience. Send for list.

G. C. WATSON,
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New Catalogue (No. 4) containing over 1000 Ornamental Cuts for Florists' use, such as envelopes, letter-heads, bill-heads, cards, advices, floral designs, etc., at from 30c. and upward. Price of Catalogue 25c. (deducted from \$1.00 order).

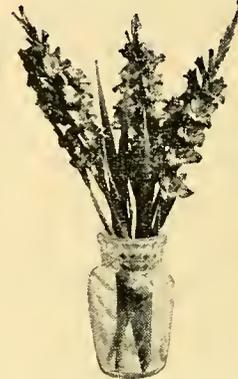
A. BLANG, ENGRAVER for Florists, Philadelphia, Pa.

Jno. F. Croom & Bro.,
WHOLESALE
Tuberose & Caladium Growers

MAGNOLIA, N. C.

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Mixed and Seedling
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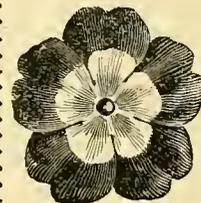
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And Society of
AMERICAN FLORISTS'

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This mixture can not be surpassed for immense size of flower and brilliancy of colors; it is made of 40 per cent scarlets, 30 per cent. pinks, 20 per cent. blue and purples, 10 per cent. striped. Each flower is larger than a silver quarter and has a large showy eye. We have secured the whole crop of a Verbena special. Per trade packet, containing 750 seeds, 50c.; per 1/4 oz. 80c.; per oz. \$3.00. Order at once as this stock is limited. Verbenas grown from seed are preferable to those grown from cuttings, as they are free from rust.

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Natural.....\$20.00 per ton.
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Sweet Peas.

BLANCHE FERRY	per lb. \$.60
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Tuberous Begonias
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Medal awarded World's Fair.
Finest strain in the world.
SEED, choicest single & double 50c & \$1 each trade pkt.
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VERBENAS. Good assortment. Clean and healthy.
STOCK PLANTS . . . \$3.00 per 100; \$25.00 per 1000
ROOTED CUTTINGS . . . 80 " 8.00
CARNACTIONS—Rooted Cuttings of leading kinds, \$2.50 to \$3.00 per 100; \$20 and \$25 per 1000.
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MME. CROZY.....	per ounce 25c	ASSORTED, the 3 varieties.....	per ounce 25c
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Orders booked now for fresh imported stems, fronds and roots cut off; best long-leaved variety. Delivery Feb. 1st to April. Cultivated Cycas always on hand, rooted and well established

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HIGH CLASS SEEDS AND BULBS.
Florists and Gardeners trade a Specialty.
25 years' experience. 7 sorts Cyclamen Seeds. The best strain in the world. Send for prices.
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Ampelopsis Veitchii.
5 to 7 feet.....\$8.00 per 100
4 to 5 feet..... 6.00 per 100
1 to 2 feet..... 3.00 per 100
CHARLES X LILAC, grown less than two feet high, from three to five branches, all well budded, at \$25.00 per hundred.
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Stock plants Verbenas, first-class colors, \$2 per 100
Stock plants Bullercep Carnations, fine plants, 6 to 8 cts.
Gladiolus, mixed, light shades predominante, \$1 per 100. Small bulbs of above for florists' growing.
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NEW CROP AND CHOICEST STRAIN.

SWEET ALYSSUM, oz 10c.	Trd. Pkt. 10c
ASTER in variety and separate colors	25c
CENTAUREA CANDIDISSIMA	25c
" GYMNOCARPA	15c
CYCLAMEN, large flowering, white, dark red, light red, mixed	50c
LOBELIA, CRYSTAL PALACE COMPACTA and other varieties	25c
MIGNONETTE, MACHET, oz. 50c.	10c
VERBENA, Mam, mixed and separate colors	25c
SWEET PEAS. Named sorts. (Send for list.)	

Send address for our Annual Catalogue and Special Gardeners' List of Vegetable Seeds; ready early in January.

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Store, 10 N. Clark St. CHICAGO,
Warehouse and Office, 186 E. Kinzie St.

CHOICE FLOWER SEEDS FOR FLORISTS

Our Specialty.
Fresh seed just arrived. New crop Sweet Peas just received.
Price List for florists free on application.

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FROM JAPAN.—Bulbs, Seeds, Trees, Palms, Etc.
FROM AUSTRALIA.—Araucarias, Palm Seeds, Etc.
FROM CALIFORNIA.—Bulbs, Seeds, Trees, Etc.
Orders booked up to Dec. 1 for Cycas Revoluta Stems. Send for our new and interesting Catalogue '94-'95.
H. H. BERGER & CO.,
(Established 1878.) SAN FRANCISCO, CAL.
Oldest and most reliable import house.

BULBS.
Hulsebosch Bros.
ENGLEWOOD, N. J.
SELL ALL KINDS CHEAP.
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SEEDS
Of all kinds, true to name and fresh.
Jos. F. Dickmann,
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Send for my New Catalogue, FREE. St. Louis, Mo.

EXTRA CHOICE FLOWER SEEDS.
List free on application.
FRED. ROEMER, SEED GROWER,
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PALMS ARE INCREASING IN FAVOR with the people but they need coaxing to buy. Our prices are "maxing" so yours can be. Send us \$3 for 173 & 4-in., or \$5 for 34 of assorted varieties such as Lantanla, Kentia, Elegan, Excelsa, etc. Shipped safely NOW. Catalogue free. **WILLIAMS & SONS CO.,** Batavia, Ill.

Cincinnati.

A week of rainy weather with a few warm days has not been conducive to great activity in the cut flower business. Roses are in fair quality considering the weather; carnations are excellent, and violets are of good average size and color. There are but few extra fancy roses in the market, the general demand for hybrids being too uncertain to encourage the growth extensively of these at so early a date, but there are some very fine crops in shape to come in later. There are some good azalea plants coming in now from the local growers. Mr. Peterson has a fine collection of them in his show window. The wholesalers report a good steady shipping trade ever since the holidays, with a strong demand for white flowers. Violets are getting more plentiful and in good demand. In bulb stuff of all kinds the supply is very light except Romans, which are being brought in by the bushel. Valley is getting better, but there is plenty of room for improvement yet. Paper whites and freesia meet with ready demand. Tulips are coming in, but are very short stemmed and sell poorly. Harrisias are getting a little scarce.

The annual meeting of the local society, which was to be held January 12, was postponed until January 26 on account of the bad weather.

H. C. Hatcher, with the Haupt Floral Co., of Louisville, Ky., has spent a week with us.

The Hoffmeister Floral Co. are cutting some fine American Beauies from a 200 foot house with five benches.

Corbett & Wilson have 56 sash of violets, from which they have cut over 40,000 flowers up to date. They picked 5,000 the day before Christmas. P.

COLUMBIA, Mo.—Mrs. L. N. Fitch has opened a floral store here.

THE Baltimore Cactus Society held its annual banquet January 16.

NOW is the time to plant VERBENA SEEDS

The progressive kind will meet your needs, And make a grand sensation: The kind that spans the silver half And makes progressive Florists laugh, And saves them much vexation.

New crop now ready. None but the best XXX seed offered. Will produce some grand novelties. We've had flowers 1½ inches across. First Premium at Mt. Holly Fair this year. ¼ oz 60c; ½ oz \$1; 1 lb. 10c.

Hand hybridized Double Petunias, Dreer's; none better. 500 seeds 6c; 1000 seeds \$1.00.

Single fringed, Dreer's and California Giant blended, saved from the most magnificent showy varieties in cultivation. 500 seeds 50c; 1000 seeds 50c.

Dwarf French Gold striped Marigold, makes nice pot plants for spring sales. Trade pkt. 2c.

Dwarf Marguerite Carnation, all saved from fine double flowers. Trade pkt. 25c. Lots of other good things. Novelty price list, free to ll.

Cash with order please. Address

J. C. GIBSON, WOODBURY, N. J.

To Make Room.

We have at least 80,000 Geraniums, all the leading varieties, grown in flats, ready for 3-inch pots, at \$1.75 per 100, \$15.00 per 1000. In all cases cash must accompany the order. Selection of sorts to remain with us.

J. E. FELTHOUSEN,

370 Van Vranken Ave., SCHENECTADY, N. Y.
Mention American Florist.

100,000 ROSA RUGOSA. Strong transplanted seedlings.
First choice \$3.50 per thousand.
Second choice \$1.25 per thousand.

General assortment and large collection of Roses on own roots, grafted or briar roots. Also quantities of fruits and forest tree stocks, specially Myrobalan Plum and Mahaleb. References asked with order.

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ROSES. ROSES.

E. V. Hallock says: "Your field-grown Roses interested me very much. They are without doubt the finest grown roses in the world." "The finest and cheapest I ever bought,"—Wm. Falconer.

HYBRID PERPETUAL, MOSS AND CLIMBING.

In Splendid Assortment of leading varieties. Also Extra fine stock of following will be offered at very low rates while surplus lasts:

TREE ROSES—Holland grown, well rooted, good, heavy tops, in fine assortment.

AMPELOPSIS VEITCHII—Extra, 3 to 4 feet.

ARISTOLOCHIA SIPHO—Strong well branched plants with heavy roots.

VIBURNUM PLICATUM (Japan Snowball)—2 feet.

CLEMATIS—Strong, 3 year, large flowered.

TUBEROSES—Pearl and Double Italian, fine bulbs.

CALADIUM ESCULENTUM—9 to 10, 7 to 9 and 5 to 7 inch.

Low prices on application. State quantities wanted.

OUR USUAL COMPLETE STOCK OF HARDY AND TENDER PLANTS, POT ROSES, SHRUBS, VINES, BULBS, FRUIT AND ORNAMENTAL TREES, GRAPE VINES, SMALL FRUITS, SEEDS, ETC.

41st YEAR. 1000 ACRES. 29 GREENHOUSES.

THE STORRS & HARRISON CO.,

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Rooted Rose Cuttings.

After February 5th, 1895, we shall be prepared to furnish first-class rooted rose cuttings of **American Beauties**, at \$2.50 per 100. **Brides, Bridesmaids, Perles** and **Meteors**. at \$1.50 per 100.

After March 1st we shall have a fine lot of rose plants from 2 and 3-inch pots at hard times prices. Orders received now, and shipped when wanted.

BASSETT & WASHBURN, Hinsdale, Ill.

AMERICAN BEAUTY, AMERICAN BELLE, TESTOUT, METEOR, BRIDESMAID, BRIDE, LA FRANCE, WOOTTON, MME. DE WATTEVILLE AND KAISERIN AUGUSTA VICTORIA. Rooted cuttings. Cash with order. Address for quotations VILLA LORRAINE ROSERIES, T. W. STEMMER, MADISON, N. J.

ROSES

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150,000 of all the leading varieties.

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BEST STRAIN ON THE MARKET.

Fresh tested seed of Semple's strain of Aster Seed now ready for sale. Long stems, late flowering and delicate colors make it desirable for cut flowers.

Prices quoted to the trade on application. \$1.00 per large trade pkt. Quantity of seed limited.

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Choice Florist Seeds.

Pansy, Calceolaria, Primula, Cineraria, choicest strains, at 25 and 50 cts. per trade packet.

Special quotation on BULBS.

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The Universal Horticultural Establishment, SOUTH ORANGE, N. J.

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RICHMOND, INDIANA.

Superior forcing stock. Strong field-grown. Budded low on Manetti. Extra heavy tops and roots. Better than imported; can depend on their reaching you in first-class condition. Our exhibit at Atlantic City received Honorable mention.

100,000 Roses

Strong 2-inch pot plants, \$25 per 1000; \$3 per 100 in following sorts and many others.

Beauty Inconstante, American Perfection, Mermet, Bride Perle, Meteor, Gloire de Dijon, Devonien, Ctsse. du Parc, Etoile de Lyon, Cels Lamarque, S. Ifaterre, Niel, Souvenir l'herese Levet, White La France, Estelle Pradel, Ctsse de Labarthe, Ed. Leittaye, Mme. Olga, Mme. Merrier, Mme. Cusin, Queen, Papa Gontier, Mme. Jos. Schwartz, H. M. Stanley Reve d'Or, W. A. Richardson, Mme. Jessie Fremont and many others.

TRIPLE YOUR MONEY by buying now, and cultivate for spring sales. Write for Wholesale and Retail Catalogue for special sorts at special prices.

ROSES IN ALL SIZES OUR SPECIALTY.

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Well Rooted Rose Cuttings of

MERMETS, BRIDES, PERLES, Etc., at \$15.00 per 1000.

2½-inch TEAS at \$25.00 per 1000.

BRIDESMAIDS, at \$30.00 per 1000.

ANCHORAGE ROSE CO., ANCHORAGE, KY.

FOSTITE, A PERFECT REMEDY for

Mildew on Roses and Carnation Rust.

Joosten's Magazine Bellows, the best out.

Postite, 25 lbs \$2.00, Bellows, \$3.50, Cash with order. Sold by all dealers and by

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Our selection, all good, well grown, named varieties. 10 at 100 rate. Per 100

Begonias, 20 varieties.....	\$4.00 & \$6.00
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Heliotrope, best new and old.....	1.00
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Cash with order. If to be sent by mail, add for postage 10c. per 100 for Alternantheras; 20c. per 100 for Coleus, Heliotropes, Fuchsias and Ageratums; 30c. per 100 for Begonias and Geraniums.

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2-IN. POT PLANTS.

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VERBENAS, 25 best sorts, \$20 per 100; \$3 per 100.
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" from seed boxes, repiqued, \$6 per 1000.
PETUNIAS, double fringed variegated, \$1 per 100.
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HELIOTROPEs, the best new and old sorts, \$3
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GERANIUM ZONALE, 50 sorts, best single and
double, \$3 per 100.
HIBISCUS, CHINESE, 10 best sorts, single and
double, \$4 per 100.
VIOLETS, Marie Louise and Swanley White, 2 in.,
\$3 per 100.
CHRYSANTHEMUMS, 50 prize winning sorts,
\$3 to \$6 per 100.

Illustrated Catalogue for 1895 free to all. Most complete assortment.

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The Jewelers strain of Large Flowering and Fancy Pansies, field-grown, nice stocky little plants—cold frame size.

THE FINEST STRAIN is what every florist wants. I think you will find mine as good as the best. Stock carried in cold frames, and orders filled any time. 100 by mail 60 cts; 1000 by express \$5.00; 5000 \$20. Finest mixed seed of above Pansies, pkt., 2500 seeds, \$1; per oz. \$8. Yellow same price. Cash with order.

E. B. JENNINGS, Wholesale Pansy Grower,
Lock Box 254. SOUTHPORT, CONN.

Pansy Plants.

EXTRA FINE STRAIN.

75 cents per hundred; \$5.00 per thousand.

ESSEX HEIGHTS FLORAL CO.,
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CHOICE SEEDS.

VERBENA GRANDIFLORA.

This improved strain of Mammoth Verbenas gives perfect satisfaction to my many customers, and is justly claimed the finest in cultivation; flowers an inch in diameter, in extra large trusses, of finest colors.

CYCLAMEN GIGANTEUM.

A magnificent collection of the finest giant flowering varieties; largest flowers and best colors.

Each per trade pkt. 25c; 3 pkts. 60c; 6 pkts. \$1.00. I will here thank my florist friends for the many letters of commendation received during the past year.

JOHN F. RUPP, Shiremanstown, Pa.

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ALL IN THE BEST VARIETIES.

ROSES,

CARNATIONS,

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VERBENAS.

Rooted Cuttings and Plants. Send for price list.

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The Sensational New Rose Mrs. PIERPONT MORGAN.

This is by far the greatest acquisition introduced since The Bride, and will be indispensable to all Florists. It will supersede nearly all the lighter shades of Hybrids. The individual flowers when in perfection are larger than American Beauty and very much superior in form and color, with fine handsome foliage and very stout stems from 16 to 24 inches long—the color, a bright, clear cerise Red, is the most brilliant by artificial light of any known variety. It is also the most prolific bloomer known. Mr. E. Asmus, of West Hoboken, and Mr. John Taylor, of Bayside—two of the most critical judges in the vicinity of New York—have each ordered

FIFTEEN HUNDRED PLANTS

of it after carefully inspecting it growing here. Orders are now being booked, which will be filled in strict rotation.

Extra good strong plants ready for delivery April 15th.

PRICE: \$7.50 per dozen; \$35.00 per 100; \$150.00 per 500; \$250.00 per 1000.

JOHN N. MAY,

..... SUMMIT, N. J.

Toronto.

The regular meeting of the Gardeners' and Florists' Association was held on the 15th inst. The attendance was somewhat slim for this time of year, as there was nothing particularly attractive to be brought up. The business of the evening was finished at an early hour. The committee to consider the advisability of amalgamating the summer and fall shows reported against amalgamation, but recommended the association to petition the Provincial Government to change the Electoral District Agricultural Society (which now holds the summer show) into a horticultural society. The committee was given power to act in the matter and lost no time in proposing the change at the annual meeting of the Electoral District Agricultural Society which took place the next night. The majority of the directors of this institution don't care a continental for horticulture, though they hold a horticultural show in order to comply with the law. They simply use it as a means of getting on to the Industrial Exhibition Association (which is a big thing in Toronto). The charter of the I. E. A. allows the twelve directors of the E. D. A. S. to be taken into the I. E. A. The proposal was a considerable surprise to the directors, but they promised to take it into their serious consideration after further and more full particulars had been given by Messrs. Gilchrist and Manton, and agreed to confer with the committee on the subject at an early date. Whether they do or whether they don't, however, the committee is determined to go ahead with the matter, and will go to the Government along with representatives from the cities of Hamilton, London, Kingston and Ottawa, which also want the change and will press their case with all the influence they can get to back it. There is little doubt I think but that the change will be made, but an increased grant is also wanted. At present the Toronto E. D. A. S. gets a grant of \$550 and the other cities mentioned get \$350 each. These grants have never been increased since they were first made, when none of the cities were a quarter of their present size, but the societies in the country have got several increases, so that the case is pretty strong on this point too. It is hoped that the other cities will take the matter up and send as large a delegation to interview the Government as possible. If this thing goes through, as we expect it will, horticulture can be made to boom in this province as it has never boomed before. But we have got to work for it.

The weather is particularly unsettled for this time of year; we have it mild, cold, dull, fine, snow, rain all in the same week. Some people say "variety is pleasing"; it depends upon circumstances; when we get a spell of fine weather we like it to last. The same remark might be applied to the state of trade, which is also unsettled; some good orders turn up now and then, but it can't be depended on. E.

Rooted Cuttings.

GERANIUMS.—All select standard bedders, ten or more varieties, mostly double and semi-double, sold in assortment only, at \$12.00 per 1000 (all labelled). Single scarlets, \$9.00 per 1000.
VERBENA.—A large collection of fine bright colors, all robust growers, at \$7.50 per 1000.
COLEUS.—twenty best bedders, plenty of red and yellow, \$6.00 per 1000.
HELIOTROPE.—\$1.20 per 100.
CANNA.—Mme. Crazy, strong bulbs, at \$6.00 per 100.
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Swainsona Galegifolia Alba.

We have the largest stock in the States of this plant, and are prepared to supply 100,000 rooted cuttings on or after March 1.
PRICE, \$4 per 100, or \$35 per 1000. 2-inch, \$6 per 100; 3-inch, \$8 per 100; 4-inch, \$10 per 100.

WRITE US FOR TESTIMONIALS, AND OUR SPECIAL RATES FOR 1000 LOTS
WALTER R. CLIFFE,
 Main and Johnson Streets, GERMANTOWN, PHILA., PA.

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PITCHER & MANDA, EASTERN AGENTS,
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CARNATIONS

SEEDLINGS FOR 1895.
KOHINOOR Large full white on strong erect stems. The best white I have ever grown.
PURPLE KING Clear bright purple, productive and very showy.
 My stock of standard and new varieties has never been better than at present. I grow nothing but Carnations and exclusively for cuttings and plants.
 Inspection and correspondence solicited.
 Descriptive price list on application.

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 The Pines. KENNETT SQUARE, Chester Co., PA.

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Healthy well rooted cuttings now ready.
 Per 100 Per 1000
 Wm. Scott and Mme Diaz Albertini... \$2.50 \$20.00
 Daybreak and Tidal Wave 2.00 15.00
 Lizzie McGowan, Wilder and Portia. . . 1.50 10.00
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 Cash with order. 10c. per 100 extra when shipped by mail.
FERNS—Choice varieties, from 2-In. pots \$3.00 per 100
PETUNIAS—Double Fringed, choice varieties, from 2½-inch pots. 3.00 per 100
GERANIUMS—Fine Double and Single varieties, from 2½ inch pots. 3.50 per 100
 Cash with order. Price list on application.

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ROOTED CUTTINGS.
 Will take orders until April 1st.
 Helen Keller, Boston & Or. 5.00 per 100
 Wm. Scott, Albertini Mrs. Reynolds. . . 20.00 per 1000
 Daybreak, Wabash, Richmond 15.00 per 1000
 McGowan, Puritan, Portia, G. Wilder 12.00 per 1000
 Tidal Wave, S. Spray, White Wings. . . 10.00 per 1000
A. T. JACKSON.
 Station X, CHICAGO.

WM. SCOTT. THE "BIG ALBERTINI. DAYBREAK. MCGOWAN. FOUR."

Selected, Healthy, Well Rooted Cuttings of these fine Carnations Ready to ship any time.
 Prices Reasonable. Guaranteed Stock.
ALEX. MCBRIDE, ALPLAUS, N. Y.

CARNATIONS

Per 100 Per 1000
HELEN KELLER, rooted cuttings. \$1.00 \$35.00
 Out of 2½-inch pots. . . 7.00
 Rooted cuttings of the following varieties 2.50 20.00
 Daybreak, Silver Spray, Edna Craig, Lizzie McGowan, Tidal Wave and Portia.
 Also a full line of Florists Seed, all Imported, at low prices. Terms Cash with order.
E. HIPPARD, Youngstown, O.

When writing to any of the advertisers on this page please mention the AMERICAN FLORIST.

The Bride of Erlescourt CARNATION.

SEEDLING 1890. PORTIA X SILVER SPRAY.
 An extra large full flower, strong stem, good calyx, pearly white, delicately fringed, highly fragrant and an excellent shipper. Plant exceedingly healthy and grand grower; foliage stronger than Daybreak. Altogether the finest and most perfect White Carnation ever raised. This is our assertion, and we are borne out in it by hundreds of florists who have been to see it.
 Scores of testimonials are reaching us from all over the Continent.

HERE ARE SOME TO-DAY:
 MONTREAL, CAN., Jan. 21st, 1895.
 Dorchester St.

Gentlemen:—The Bride of Erlescourt is without exception the finest white Carnation I have ever seen, and have been handling cut flowers for over thirty years.
 Yours truly, J. S. MURRAY.

ALLIANCE, OHIO, Jan. 21st, 1895.
 MILLER & SONS, Bracondale, Ont.

Gentlemen:—I received your consignment of plants and flowers of Bride of Erlescourt in good order. Time forbids an analysis of this grand acquisition to the list of white carnations at this moment.

Suffice it to say it far exceeds my expectations; the character of the flower and the features of the plant place it beyond all question in the very front ranks of all existing whites.
 Yours very truly, L. L. LAMBORN.

Price of Rooted Cuttings, delivery March 15, \$3 per doz.; \$12 per 100; \$90 per 1000.
 Address **MILLER & SONS,**
 BRACONDALE, ONT.

THE BEST CARNATIONS

Are the most profitable. Per 100 Per 1000
KOHINOOR—New white, large, free, \$12.60 \$100.00
ROSE QUEEN—New, fine commercial pink 12.00 100.00
CORSAIR—The scarlet McGowan . . . 10.00 75.00
ALASKA—New, white, large, productive 10.00 75.00
LIZZIE GILBERT—New, brilliant scarlet 10.00 80.00
WM. SCOTT—Clear pink, very free. . . 3.00 25.00
GOLDFINCH—The best yellow 5.00 40.00
DAYBREAK—Light pink, fine 2.00 15.00
 We have also all the standard varieties. Order at once while stock is complete.

GEO. HANCOCK & SON,
 GRAND HAVEN, MICH.
 Mention American Florist.

CARNATIONS—ROOTED CUTTINGS

\$9.00 to \$25.00 per 1000.
COLEUS—Rooted Cuttings, 75 varieties, my selections, in 40 or 50 varieties, \$4.50 per 1000 by express; 70c. per 100 by mail.
GIANT DOUBLE ALYSSUM, 70c. per 100; \$6.00 per 1000.
LADY CAMPBELL VIOLET, \$1.25 per 100; \$10.00 per 1000.
 NO RUST. NO FUNGUS. NO MEALY BUG.
WM. H. SEARCH, Avondale, Chester Co., Pa.

Clematis Jackmanni.
 One year, nice dormant stock, for potting up for Spring sales, \$2.00 per dozen; \$12.00 per 100. All home grown.
 . . . F. A. BALLER, Bloomington, Ill.

CHITTY'S NEW PRIZE CARNATIONS For 1895.

ALASKA—The Best and purest white ever offered.

CORSAIR—The scarlet McGowan.

MAGNET—Beautiful magenta rose.

LITTLE GEM—The dwarf J. J. Harrison.

MINNIE COOK—Superb variegated sort.

See full page illustrated advertisement of above in American Florist December 1st and 8th.

FOR DESCRIPTIVE WHOLESALE PRICE LIST

ADDRESS **H. E. CHITTY,**
PATERSON, N. J.

WANTED!

A good, free blooming, healthy, vigorous **Yellow Carnation.** Flowers must be perfect, of fair size and borne on long, stiff stems. There must be plenty of pips, and these easily rooted.

AND HERE IT IS—Any one of the following will fill the bill:

ELDORADO—Pure yellow ground edged with light pink. Picotee marking.

KITTY CLOVER—Light yellow striped red with a little white.

EULALIE—Yellow ground penciled with pink.

We also offer this year **PRINCESS BONNIE**—A beautiful pink variegated flower of large size; and **DAISY BELI**—A white, variegated similar to Chester Pride, but very much larger flower.

Send for general price list of both Carnations and Coleus.

W. R. SHELMIRE,
AVONDALE, Chester Co., PA.

THE COTTAGE GARDENS,
Queens, Long Island, N. Y.
WHOLESALE CARNATIONS.

New Carnations our Specialty
FRED. DORNER & SON,
FLORISTS,
LA FAYETTE, : : INDIANA.

Carnation Mrs. Fisher
IMPROVED.
Strong Rooted Cuttings, free from disease
\$2.00 per 100; \$15.00 per 1000.
CHARLES EVERDING, Branford, Conn.

Carnations. NOW READY.

WM. SCOTT, from sand.....\$3 per 100; \$25 per 1000
LIZZIE MCGOWAN, from sand..... 2.50 " 20 "

The above varieties are from "specially selected stock." Do not be misled by cheap offers. Poor stock is dear at any price. Plants from soil will be ready February 15th.

CHARLES H. ALLEN,
FLORAL PARK, N. Y.

PLEASE SEND CASH WITH ORDER.

"THE CARNATIONS."

	Per 100	Per 1000		Per 100	Per 1000
WM. SCOTT, Rooted Cuttings.....	\$3.00	\$25.00	DAYBREAK, Rooted Cuttings.....	\$2.50	\$20.00
LIZZIE MCGOWAN, Rooted Cuttings..	2.50	20.00	ALBERTINI, Rooted Cuttings.....	3.00	25.00
TIDAL WAVE, Rooted Cuttings.....	2.50	20.00	BOUTON D'OR, Rooted Cuttings.....	8.00	70.00

Of the above lot we are booking orders for early delivery. We have some Wm. Scott now ready. We call particular attention to our stock of Wm. Scott, which is extra fine. Lizzie McGowan, the best we have ever seen. Tidal Wave does particularly well with us and is remarkably good. The other varieties we offer are also in the condition. As we have the control of JEROME A. SUYDAM & CO'S stock, together with our own, it will compare favorably with any yet offered. Special prices on 10,000 lots. CASH WITH ALL ORDERS.

DAILLEDOUZE BROS., FLATBUSH, BROOKLYN, N. Y.

CARNATIONS READY NOW.

Rooted Cuttings, that are guaranteed well rooted and perfectly healthy. If they are not you can ship them back and have your money returned.

Write for prices, stating how many you will want of each variety and when they are to be delivered, I think we can make a satisfactory deal together.

List of varieties on application.

ALBERT M. HERR,
L. B. 496. **LANCASTER, PA.**

Booking Orders NOW

— FOR —
WILLIAM SCOTT, Per 100 Per 1000
\$3.00 \$25.00
Strong **HEALTHY** plants **FROM THE SOIL** for early **SPRING DELIVERY.**

MRS. FISHER, For Summer Blooming
Ready NOW.
Per 100, \$2.00, Per 1000, \$15.00.

Send for price list of other
NEW AND TESTED CARNATIONS.
FISHER & AIRD,
Norfolk Co. **ELLIS, MASS.**

Carnation Cuttings

NEW AND OLD VARIETIES.
Good, healthy stock, well rooted, ready by January 1st, 1895.
Rooted Cuttings **GIANT DOUBLE ALYSSUM, VIOLETS, COLEUS, ETC.** Write for price list.
E. J. CLOUD, Avondale, Chester Co., Pa.
When writing mention the **AMERICAN FLORIST**

CARNATIONS

WM. SCOTT, the best pink.
GOLDFINCH, the best yellow.
Send for list of Rooted Cuttings of these and all the best varieties.
GEO. HANCOCK & SON,
GRAND HAVEN, MICH.

Garnation Wm. Scott.

The best and most profitable Carnation. It is the most productive. It is the strongest and healthiest grower. In size it ranks with the best. The flowers bring the highest price.
Rooted Cuttings, \$3.00 per 100; \$25.00 per 1000.
GUARANTEED FREE FROM RUST.
E. J. PADDOCK, Station F, Cleveland, O.

CARNATIONS.

Rooted Cuttings. No disease. Stock true to name. Sample Free.
Daybreak, Tidal Wave.....\$2.00 per 100; \$16.00 per 1000
Silver Spray, McGowan..... 1.75 per 100; 12.00 per 1000
Helen Keller..... 6.00 per 100; 60.00 per 1000
— **READY NOW.** —
LAKE GENEVA FLORAL CO.,
LAKE GENEVA, WIS.

I DON'T THINK.

On this subject, it requires only an ordinary ganglion to disclose the fact that **CARNATIONS** make stronger, healthier stock when grown cool—on ground beds—and in a new house.

RUST has never visited us (barring Mr. David Rust of the "Exchange"), and clean, vigorous stock of the following list will be at your disposal on and after Feb. 1st, 1895.

	Per 100	Per 1000
Ophelia, new, large, medium plok.....	\$10.00	\$80.00
Sweetbrier, plok.....	5.00	45.00
Wm. Scott, plok.....	3.00	25.00
Daybreak, pink.....	2.50	20.00
Thos. Cartledge, carnobe, scarlet.....	2.00	15.00
Puritan, white.....	2.00	15.00
Lamborn, white.....	2.00	15.00
McGowan, white.....	1.50	12.50
Mrs. Fisher, white.....	1.50	12.50
Portia, scarlet.....	1.50	12.50

Other standard varieties if desired.
Excellent stock of Lady Campbell Violets now ready.

"THE SLOPE," C. S. SWAYNE,
KENNETT SQUARE, Chester Co., PA.

OPHELIA.

A large pink **CARNATION**, a little darker than Scott. Winner of Craig cup for best seedling at Philadelphia, in spring of '93; will be ready for distribution Feb. 1st, at \$10.00 per 100; \$80.00 per 1000. Those wishing to list it please write.

MOST LEADING VARIETIES READY AT SAME TIME.

MRS. FISHER.
(For summer blooming), now ready, from soil, at \$12.50 per 100.

LADY CAMPBELL VIOLET, Rooted Runners ready, at \$2.00 per 100; \$15.00 per 1000.
EDW. SWAYNE, Kennett Square, Pa.
Mention American Florist.

50,000 Carnations.

ROOTED CUTTINGS.
Ready now. Positively no **Rust.** Also rooted **Mums, Lady Campbell Violets.**
Send for Price List.
Wm. Swayne,
P. O. Box 224. **KENNETT SQUARE, PA.**

CARNATIONS & VIOLETS

Per 1000
5000 **DAYBREAK**..... \$15.00
5000 **SILVER SPRAY**..... 10.00
5000 **LIZZIE MCGOWAN**..... 12.50
LADY CAMPBELL VIOLETS, well rooted runners..... 10.00
Immediate delivery for cash.
JOSEPH RENARD, Unionville, Chester Co., Pa.

CARNATIONS

50,000 Rooted Cuttings.
Clean and healthy, now ready, including Wm. Scott and other profitable varieties.
Send for price list to
JAMES HORAN & SON, Bridgeport, Conn.

Grevillea Robusta.

Strong 2½-inch pots, 50c. per dozen; \$3.00 per hundred.
NATHAN SMITH & SON,
ADRIAN, MICH.

Springfield, Mass.

After the rush of the holiday trade dealers naturally look forward to a season of less activity, but contrary to their customary anticipations the past three weeks following Christmas have been marked by an unusually brisk trade, due partly to the heavy funeral work and partly to the constantly increasing number of afternoon teas. The general trade in cut flowers during the week has been good.

W. F. Gale of the Gale Floral company attended the dinner of the New York Florists' Club in New York Saturday, January 19.

The board of management of the Hampden County Horticultural Society has decided upon the following dates for its annual flower shows: July 16 and 17, sweet pea exhibition; September 24 and 25, fruit and flower show; November 20, chrysanthemum show. The board has elected Professor S. T. Maynard of Amherst College professor of horticultural chemistry in the society.

W. S. Loomis gave a delightful address on "Trees and Shrubs" before the members of the Holyoke Horticultural Society recently. The paper was not so full of science as it was of nature. Like the late Dr. Oliver Wendell Holmes, who used to carry a tape measure around with him and measure all the big trees he met, Mr. Loomis has taken the trouble to measure all the large trees in this part of the state, and much of his address was taken up in presenting in detail the sizes of the various trees he had inspected.

At an adjourned annual meeting of the Springfield Amateur Horticultural Society held last week the following board of directors was chosen: Joseph Aumer, Harrison Johnson, C. L. Burr, N. J. Chamberlain, George D. Cooley, G. F. Gengenbach, E. R. Lee, George White, W. J. Eldred, E. D. Stock, Christopher Candrian, R. V. W. T. Hutchins, W. H. Sawyer and E. A. Potter. F. W. J.

Washington.

The collection of orchids at the Botanical Gardens had a narrow escape from freezing January 13 and 14. Late the night of the 13th the boiler in the orchid house burst. Supt. Smith quickly called his men together, and before the house had time to cool off rude charcoal stoves were improvised and fires started throughout the building. The workmen sat up all night Sunday and Monday watching the thermometers and keeping a normal temperature in the houses. Later, gasoline stoves were brought into requisition until a new boiler was secured and placed in position. The old boiler had been in use fourteen years. Supt. Smith says that not one of the orchids had been injured, though it took quick and hard work to keep up the required temperature with the make-shift heating apparatus. R.

DAHLIAS, An immense stock of the best sorts of the various classes. Prices low in quantity.

CANNAS Barr's Mammoth, Conover's Colossal and Palmetto; special prices on large lots.

ASPARGUS ROOTS, Fine for potting for spring sales.

HONEY SUCKLES, from 3-inch pots, \$50.00 per 1000.

AMPELOPSIS VEITCHII from 3-in. pots, \$50.00 per 1000.

CLEMATIS PANICULATA Deciduous, Evergreen, Fruit and Ornamental. Also Flowering Shrubs and Vines in variety. Send for Trade List.

THE WM. H. MOON CO., Morrisville, Pa.
Mention American Florist.

How to Grow Cut Flowers.

BY M. A. HUNT.

A PRACTICAL TREATISE ON
THE CULTIVATION OF THE ROSE,
CARNATION, CHRYSANTHEMUM,
And other Flowering Plants for
.. CUT FLOWERS ..

Also, Greenhouse Construction Illustrated. Handsomely bound in Cloth, and sent to any address upon receipt of \$2.00.

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Culture Leaflets



A series of single-sheet instructions on the main plants, including Roses, Chrysanthemums, tuberous Begonias, Cannas, Palms, Lilies, Pansies, Foliage Plants, etc., etc.

Save lies, jaw wear and dissatisfaction if used with counter and greenhouse sales; insure proper treatment if shipped with plants. Don't cost much, either; send for samples, and you'll want a lot.

We make Red-Leaf Labels—
... 7 Styles and Sizes ...

J. Horace McFarland Co.,
HARRISBURG, PA.

Mention American Florist.

SIX WEEKS OF PROSPERITY

until Lent comes in. You will FIND THE KEY in Bayersdorfer's New Catalogue of novel and indispensable Florists' Supplies. It is yours for the asking. Worth its weight in gold. Enclose your business card to

H. BAYERSDORFER & CO., 56 North 4th Street,
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A. Hermann,

MANUFACTURER OF METAL FLORAL DESIGNS
AND DEALER IN FLORISTS' SUPPLIES.

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A First-Class Certificate of Merit Awarded for Metal Designs at Atlantic City Exhibition.
SEND FOR CATALOGUE.

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EXTRACT OF TOBACCO,
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Death to Aphis, Red Spider, &c.

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WOOD LABELS,

of Superior Quality, for NURSERYMEN
and FLORISTS.

Best pattern of 2½-inch, printed and wired.
"Highly commended" at Convention American
Florists at Atlantic City.

ADDRESS BENJ. CHASE, Derry, N. H.
Mention American Florist.

20,000 ROOTED ROSE CUTTINGS, ready now and
well rooted mail prepaid. Mermet, Bride,
\$1.25 per 100; Perle, Gontier, La France and Hermosa,
\$1.50 per 100. CARNATIONS McGowan, \$1.50 per
100; Spry, Porta, Wilder \$1.35 per 100; Edna Crail,
\$2.00 per 100. VILLAGA, variegated, trailing, \$1.00 per
100. ALBERNA-STERIA, 3 varieties, 15c. per
100. Cash with order.
J. J. LAMPERT, North King St., Xenia, O.

M. RICE & CO.,
Florists' Supplies,

23 & 25 N. 4th St., PHILADELPHIA, PA.

Send for Catalogue.
Mention American Florist.



WHITE DOVES

FOR FLORISTS.

Largest and finest stock in the United
States. Write for prices to

S. J. RUSSELL,

850 Montgomery St., Jersey City, N. J.

John Conley & Son,

Manufacturers of

TIN FOIL

2 AND 4 DOMINICK STREET,

New York.

FLORISTS' PINS.

GLASS HEADS, IN BLACK, WHITE AND VIOLET.
AUG. F. BRABANT,
54, 56 & 58 Warren Ave., New York

Cut Flower BOXES

Made up, nailed or lock cornered; or material cut to size ready to be nailed up at destination.

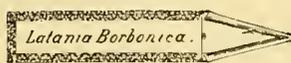
Plant Stakes.

1/4, 5-16, 3/8, 1/2, 5/8, 3/4, and 7/8-inch square cut to lengths wanted.

When asking prices state sizes of boxes or stakes and quantity wanted.

Lockland Lumber Co.,
LOCKLAND, OHIO.

THE ACME AJUSTABLE FANCY Metal Pot Label.



"Patent applied for."

Manufactured from decorated tin and brass, of neat appearance, will last for years; holds removable card board for name of plant, always legible, protected from moisture by transparent mica. Size, 5/8 inches long, 1 inch wide. Send for descriptive circular.

Tin Labels, price per 100 \$1.75. Tin Labels, sample dozen, postpaid, 30c. Brass Labels, price per 100 \$2.25. Brass Labels, sample dozen, postpaid, 35c.

Hermann Rölker,
218 Fulton St., NEW YORK.
Mention American Florist.

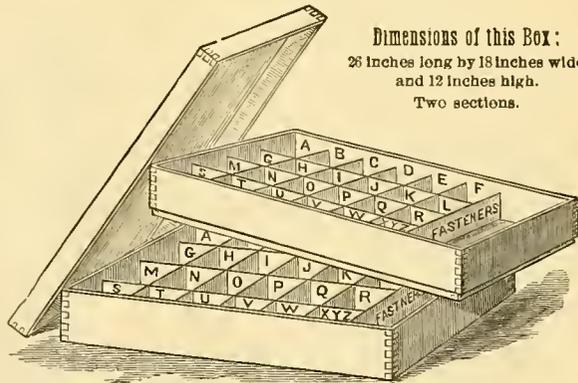
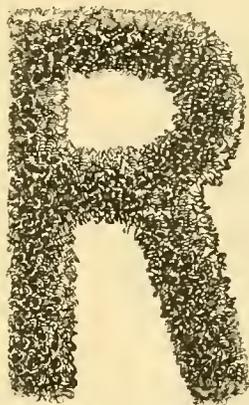
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WOOD ENGRAVING & HALF-TONE PROCESS
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ENGRAVERS
HIGHEST AWARD AT
WORLD'S COLUMBIAN EXPOSITION
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GHANDLEE & GHANDLEE,
ELECTRICAL AND MECHANICAL EXPERTS.
Correspondence Solicited.
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Dimensions of this Box:
26 inches long by 18 inches wide
and 12 inches high.
Two sections.

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.

BOSTON FLORIST LETTER CO.

Manufacture THE BEST LETTERS IN THE MARKET.

Sizes 1 1/2-in. and 2-in. 2.00 per 100. Patent fastener with each letter.

OUR NEW SCRIPT LETTER, \$4.00 per 100.

N. F. McCARTHY, Address 13 Green St.,
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Address all correspondence to 1 Music Hall Place.

We have a new FASTENER which we consider a decided success. Any customers having old style fasteners which they wish to exchange, can do so without additional cost by writing us.

These Letters are handled by all the Wholesalers in Boston.

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ARTIFICIAL STONE BENCHES FOR GREENHOUSES.

We are making thin slabs or stones 18x21 inches and 1-inch in thickness, for greenhouse benches. These last forever, and are good conductors of heat.

A bench 100 ft. long by 3 1/4 ft. wide will cost \$25.00. Write for particulars to **LEO. G. HAASE, Oak Park, Ill.**



Standard Flower Pots.

OUR POTS ARE OF THE BEST QUALITY.

We ship all goods from Cincinnati, guaranteeing lowest freight rates and prompt delivery.

Write us before placing your orders elsewhere.

CAMBRIDGE TILE MFG. CO., Covington, Ky.

Neponset Flower Pots

of Waterproof Paper, are sold as follows:

Terms—Net cash with order. If ordered shipped by freight, add 50 cents cartage.

Size	Packed Crates of	Gross Weight per 1000 pots	Per 100	Per 1000
2 1/4 inch	1,000	about 20 lbs.	\$0 25	\$2 00
2 1/2 "	1,000	" 23 "	" 30 "	" 2 30
3 "	1,000	" 34 "	" 35 "	" 2 80
3 1/2 "	1,000	" 45 "	" 50 "	" 4 00
4 "	500	" 75 "	" 40 "	" 5 00
5 "	500	" 110 "	" 90 "	" 8 30
6 "	500	" 150 "	" 1 50 "	" 13 35

Less quantities than full crates at 100 rates.
F. W. BIRD & SONS, Manufacturers.
Address orders to our Agents.

August Rölker & Sons
136 W. 24th St., NEW YORK.
Mention American Florist

TOBACCO DUST. Per 10 lbs 50c; 25 lbs \$1.00.
50 lbs \$1.50; 100 lbs \$2.50.
Extra fine, per 100 lbs. \$5.
Sample FREE.

Vaughan's Seed Store, Box 688, Chicago.
Mention American Florist.

EVANS' IMPROVED Challenge Ventilating Apparatus
Write for Illustrated Catalogue.
QUAKER CITY MACHINE WORKS,
Richmond, Ind.

KILLS MILDEW and Fungus Growth.
What does?
GRAPE DUST.
Sold by Seedsmen.

MAIL LOCK THE DOOR BEFORE THE HORSE IS STOLEN
DO IT NOW.
JOHN G. ESLER, Sec'y, F. H. A., Saddle River, N. J.
PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.

Kansas City, Mo.

The meeting of the Florist Club held at the office of R. S. Brown & Sons was very enjoyable and the most instructive one held yet. Several subjects of great interest were very ably discussed, and next meeting promises still better, as there will be a number on hand with questions to be discussed. After all business had been disposed of and the meeting adjourned, Mr. Brown invited all over to his palatial residence, which was opened wide unto us all, and after a very enjoyable chat, all repaired to the dining room and partook of an excellent oyster supper. Such was Mr. Brown's hospitality, that all present declared that we meet there once again February 14. Our intention being to meet around with the members until such time as we can afford to get a home of our own. Next meeting we have for initiation, one of our most respected citizens, a great lover of floriculture—a good patron as well.

Business around town is rather dull. Only one or two report business moving. New Years was not what it ought to be, and but for a few funeral orders of good size, business would be simply awful.

James Payne has the best narcissus in town, and all of his stock is in good shape, but his roses have the nightmare badly.

A. Barbe was most unfortunate in getting one house frozen during our last blizzard, losing some 1,500 geraniums and other stock.

In town: Geo. M. Kellogg, Pleasant Hill, Mo. S. M.

YOKOHAMA, JAPAN.—Mr. Louis Boehmer sailed January 2 for Germany where he will remain a year or more for the benefit of his health. This will be his first visit to his native land in over twenty-five years. Mr. A. Unger remains in control of the firm's business during Mr. Boehmer's absence.

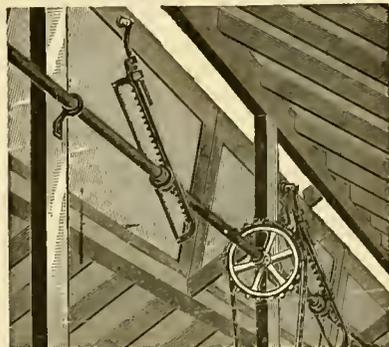
QUINCY, ILL.—Among the items the Illinois Soldiers' and Sailors' Home asks of the legislature is \$3,000 for a greenhouse.

SEE HERE

BROTHER

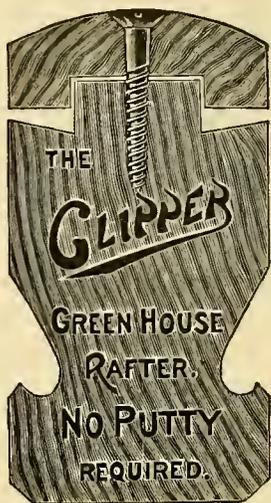
FLORIST!

Aren't you tired going through your houses two or three times a day year after year and lifting your ventilating sash one at a time and propping them up with sticks or pots, with a chance of having sash blown off and broken glass to pay for? If you are



We have got just the thing you need, the NEWEST and BEST thing out. "The New Departure" for about half the cost of the old style. Send for Descriptive Catalogue to

J. D. GARMODY, Evansville, Ind.



What Growers Say!
A Different Letter Every Week

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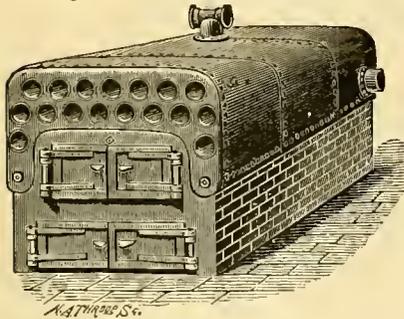
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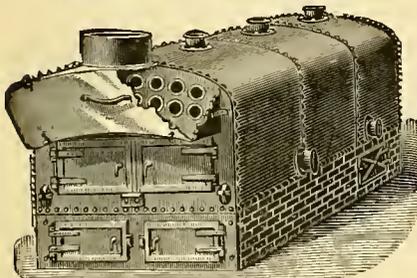
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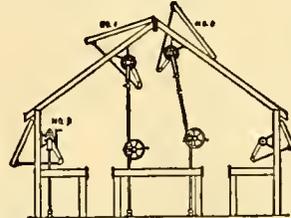
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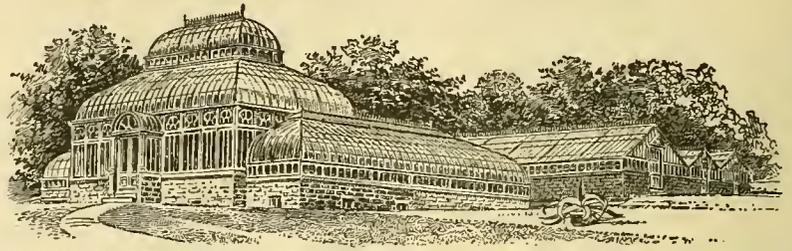
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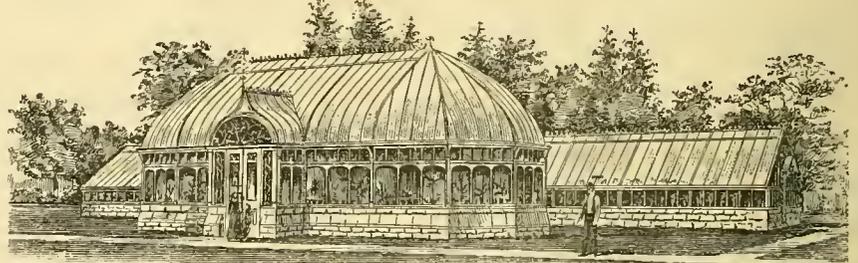
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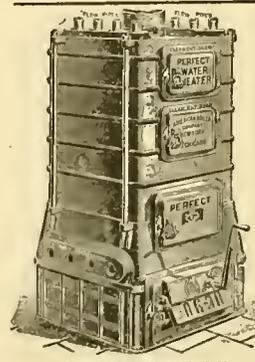
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