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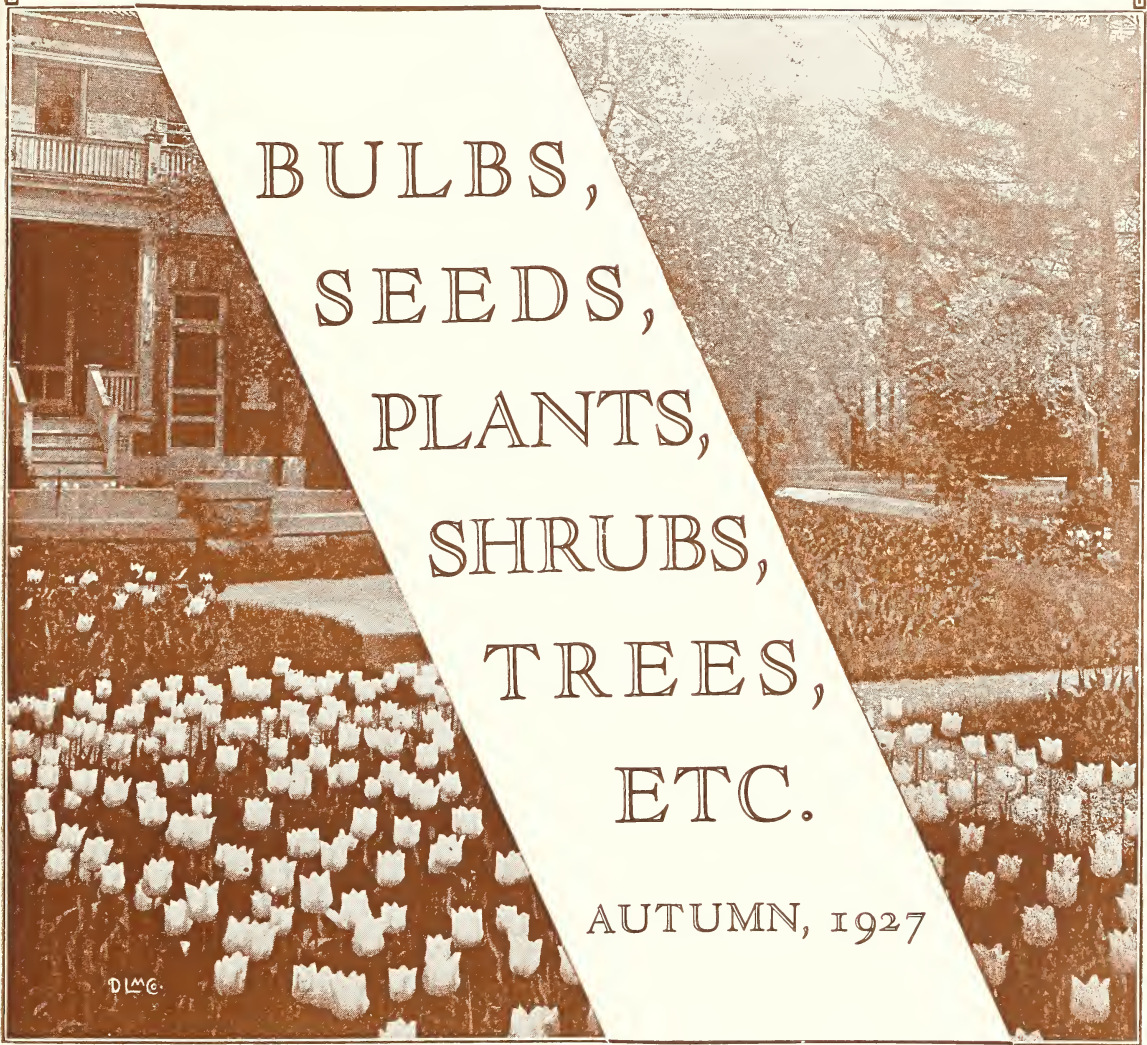
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McCULLOUGH'S

CATALOG OF

BULBS,
SEEDS,
PLANTS,
SHRUBS,
TREES,
ETC.

AUTUMN, 1927



D.M.C.

WITH COMPLETE CULTURAL DIRECTIONS FOR BULBS

R. S. McCULLOUGH, President

CHAS. R. MOORE, Vice-President



The J. M. McCullough's Sons Co.

SEEDSMEN AND IMPORTERS OF BULBS

316 WALNUT STREET 316
Just Below Fourth
Opposite Walnut Street Entrance Dixie Terminal Building

Long Distance
Phone Main 4597

P. O. Box
845

Cincinnati, O.

D. N. Shoemaker



INSTRUCTIONS

Always Get Your Bulbs Early



It is advisable to get your bulbs in the ground as early as possible after the first of October. Sooner will do no harm in cold localities. Although they can be planted as late as they can be got in the ground, yet those planted early give finer flowers, as it is necessary for bulbs to make some root growth in fall to give the best results. The general line of bulbs will be ready the second week in September. A few kinds (chiefly lilies) are not ready for shipment before November, as they are not matured enough to take up before that time. Therefore, please note that all general orders will be shipped as soon as received, and the "November Bulbs" will be forwarded as early in November as possible. Should you wish us to hold your general order until November bulbs are ready, please so state.

OUR PRICES INCLUDE POSTAGE on single bulbs and by the dozen, except where otherwise noted. Bulbs quoted by the hundred are not sent prepaid.

Order Early. It will greatly facilitate shipments if orders are sent early. We aim to send off all orders the day received.

Send the Money with the Order. Remit by Post Office Order, Registered Letter, Express Money Order, or Draft on Cincinnati or New York. United States Postage Stamps will be received for small amounts; be exceedingly careful about the least moisture getting on them when remitting, as they sometimes reach us so stuck together as to be almost worthless.

We do not send C. O. D. Everything being plainly priced, the return charges on money is an unnecessary expense.

Should you change your address, we will esteem it a favor if you will notify us, so that we can forward our Catalogs with regularity; if you receive two catalogs of the same kind, please hand one to some friend who is interested in horticulture.

Should an Error Occur, we desire to be promptly informed, and will take pleasure in making satisfactory corrections.

Write your name and address distinctly and in full; please use the order sheet and envelope inserted in this catalog.

Our Spring Catalog of Seeds, Bulbs, etc., for 1928 will be ready about January 1st, and will be sent free to all customers and applicants.

PARCEL POST RATES

All parcels of seeds, bulbs and plants, up to and including 8 oz. at the rate of 1c for each 2 oz. regardless of distance; over 8 oz., at the Zone Rate. All merchandise other than seeds, bulbs and plants up to and including 4 oz. in weight can be sent at the rate of 1c an ounce regardless of distance. Over 4 oz. at the Zone Rate.

NOTE:—When estimating postage on goods not included in our free delivery, bear in mind that while the packing on one pound may only weigh the fraction of a pound, it must be considered as a full pound when adding postage. On larger quantities add postage in proportion.

Limit of weight for delivery within local, first, second and third zones is 70 lbs.; to all other zones, 50 lbs.

When larger quantities are wanted we can pack in two or more parcels if necessary, provided money is remitted to cover postage.

Zone	First Pound	Each Additional Pound
1 and 2—150 miles.....	7c	1c
3—150 to 300 miles.....	8c	2c
4—300 to 600 miles.....	9c	4c
5—600 to 1,000 miles.....	10c	6c
6—1,000 to 1,400 miles.....	11c	8c
7—1,400 to 1,800 miles.....	13c	10c
8—All over 1,800 miles.....	14c	12c

It is advisable to have all merchandise insured. Present rates of Parcel Post insurance are as follows:

Not exceeding \$ 25.00 value.....	3c
Not exceeding 50.00 value.....	6c
Not exceeding 100.00 value.....	15c

If insurance is desired, add to remittance as indicated above.

Poisons cannot be sent by mail. Liquids and goods packed in glass should be sent by Express.

Trade Marks Registered: McCullough's Seeds, XXXX, Buckeye, Suburban Lawn Grass, Central Park Lawn Grass.

The J. M. McCullough's Sons Co., gives no warranty, express or implied, as to description, quality, productiveness or any other matter of any seeds, bulbs or plants it sells, and it will not be in any way responsible for the crop.

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McCullough's "Suburban" Lawn Grass Seed

(Trade Mark Registered)

ASSURES A SUCCESSFUL LAWN



WILL MAKE A BETTER LAWN THAN TURF OR SOD

McCullough's "Suburban"
Lawn Grass Seed

IS a mixture of the finest quality domestic and imported grasses. It contains a large proportion of Kentucky Blue Grass, one of the best Lawn Grasses for the central states, but which, on account of slow growth, must be mixed with other quick-growing sorts for best results. Our mixture is the result of several years experimenting, and, as we now offer it, is unequalled. The quantity required for making a new lawn is 75 to 100 pounds per acre, or for renovating old lawns, 40 to 50 pounds per acre. For a plot 10x25 or 250 square feet, one pound is required for a new lawn, or about one-half pound for renovating.

Our "Suburban" Lawn Seed mixture is very much to be preferred to any single grass, because the several varieties of grasses which compose it, mature at different seasons of the year, thus keeping the green sward in good color and condition during the hot weather, not losing its color, as the single variety is liable to do.

How to Make a Lawn.—A well-kept lawn instantly commands the attention of all lovers of the beautiful in Nature, and is an unerring mark of intelligence and taste. To obtain best results the main point is to start right. Seed will make a better lawn than turf or sod. The best soil is a good medium texture; the surface should be thoroughly pulverized and smoothed to the desired grade; remove all large stones, roots and hardened pieces of earth that can not be readily broken, ample time being allowed for the thorough settling of the soil, which is greatly aided by a few heavy showers of rain. When the soil is firm, level and suitably moist, sow "Suburban" Lawn Grass Seed at the rate of 75 to 100 pounds per acre. It is unwise to be too economical in the quantity of seed used, if the best results are desired. The seed should be sown broadcast and as evenly as possible, then give a thorough rolling or tamp well with the back of a spade. The seed must be well firmed in the soil. When the young grass attains sufficient height, it should be mown with a lawn mower every week or ten days, according to the season.

We have frequently been asked the question, "What causes the growth of Crab Grass in our lawns?"

From our own experience and observation, we have learned that most of our native grasses go through a rest period in late summer, generally in July and August, and it is at this time that the Crab Grass begins to make its appearance, and if the weather should prove showery it has the effect of producing a vigorous growth of this pest.

Crab Grass re-seeds itself, and experience has proven that the seeds will remain dormant in the ground an indefinite length of time until the proper season arrives for their growth and development.

No method of control is known except hand weeding, although White Clover tends to retard its growth. Raking with a sharp-toothed rake and mowing with a low-set mower is sometimes effectual in preventing seeding. Crab Grass does not grow in the shade and is killed by the first hard frost, but the seed in the ground will grow the next season.

As Crab Grass flourishes under showery conditions, too much sprinkling may aid its growth. Do not sprinkle superficially or too often, a thorough soaking every ten days being much more effective.

Our "Suburban" Lawn Grass Mixture does not contain the seed of Crab Grass. "Suburban" Lawn Grass assures a successful, and with a certain amount of renovating, a permanent lawn.

General Surface Renovating.—When your lawn has been established, you will find it to your advantage to lightly re-seed each season. As early as possible, carefully rake off all dead leaves, etc., and give the lawn a dressing of our pulverized SHEEP MANURE, or our PURE BONE MEAL at the rate of at least 500 pounds per acre, and rake in, after which sow our "Suburban" Lawn Grass Seed at the rate of three to four bushels (40 to 50 lbs.) to the acre; roll thoroughly or tamp with the back of a spade.

Renovating in Spots or Patches.—Everyone is aware that even in the best-kept lawns unsightly spots devoid of grass will appear, which are caused by root-destroying insects or fungus disease; and as these spots are not protected by a covering of turf during the winter, as a natural consequence, the chemical elements in the soil are leached out by the action of the weather, causing them to "cake" or become hard early in the spring. It is useless and a waste of seed to sow these spots unless they are carefully prepared to receive the seed. For this purpose it is our practice to cover them with either of the fertilizers mentioned above at the rate of 13 lbs. for each 250 square feet, then dig these spots up, and after raking until no trace of the fertilizers can be seen, sow our "Suburban" Lawn Grass Seed at the rate of 1 lb. to each 250 square feet. Roll thoroughly or tamp with the back of a spade. When any weeding is done on the lawn immediately drop a few grains of seed wherever a weed is removed, and while the soil is disturbed press the seed into the soil.

Prices:— $\frac{1}{2}$ lb., 25c; 1 lb., 45c; 5 lbs., \$2.00; 10 lbs., \$3.75; 20 lbs., \$7.25.

Postage Must be Added if Wanted by Mail. See Postal Rates, Second Page of Cover.

Armour's Lawn and Garden Grower and Pure Bone Meal are the Best Fertilizers for Lawns. See Fertilizers.

McCullough's "SHADY-PLACE" LAWN GRASS SEED

ON nearly all lawns there are more or less shady places, which result in having bare and unsightly spots on which the owners have difficulty in securing a satisfactory stand of grass. After many years of experimenting with different grasses, both native and foreign, we several years ago developed our present "Shady Place" Lawn Grass Seed Mixture.

This mixture of grasses is adapted for such places, as it is composed of dwarf-growing grasses which are found naturally growing in shady locations. Should the ground be covered with moss, first remove the moss with a sharp rake and apply commercial fertilizer at the rate of not less than 600 pounds per acre, then sow our Shady Place Mixture at the rate of 75 to 100 pounds per acre, or one pound to each 250 square feet, after which roll thoroughly.

Prices:— $\frac{1}{2}$ lb., 30c; 1 lb., 50c; 5 lbs., \$2.25; 10 lbs., \$4.25; 20 lbs., \$8.25.

Postage Must Be Added if Wanted by Mail. See Postal Rates, Second Page of Cover.

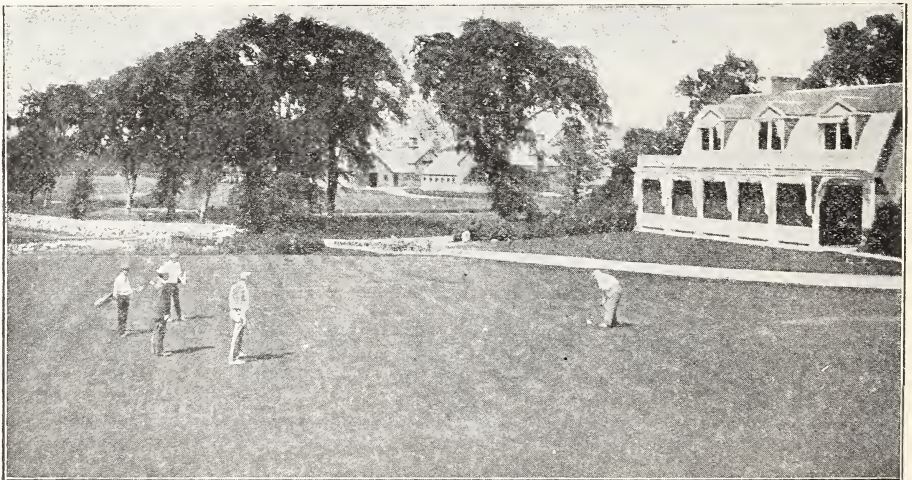


McCullough's Eden Park Lawn Grass Seed

TO supply the demand for a Lawn Grass Seed that will meet general requirements, it has become necessary to place on the market our "Eden Park." The quality of this lawn grass seed will compare favorably with a majority of the lawn grass mixtures on the market.

Prices:— $\frac{1}{2}$ lb., 25c; 1 lb., 40c; 5 lbs., \$1.75; 10 lbs., \$3.25; 20 lbs., \$6.25.

Special Grass Seed for Putting Greens and Fairways



PUTTING GREEN MIXTURE

OF late years there has developed a tendency among golf Architects and Greenskeepers to discontinue the use of commercial grass seed mixtures on Putting Greens, due probably to many unsuitable mixtures on the market and to the increasing use of German Bent seed alone and the recently introduced method of planting Creeping Bent vegetatively by means of stolons or runners.

See page 27 for description of American Creeping Bent.

There is however a steady demand for a reliable mixture of grass seeds from those who have found Bent Greens more liable to fungus attack than Greens composed of mixed grasses, and it is to meet this demand that our mixture is prepared.

Our Putting Green Mixture contains a liberal quantity of German Bent in combination with the finest grades of Kentucky Blue Grass and Fancy Red Top, and will give fine satisfaction on green or lawn. Red Fescue may be included if desired. Sow 8 to 10 lbs. to 1,000 sq. ft. $\frac{1}{2}$ lb., 40c; 1 lb., 75c; 5 lbs., \$3.50; 10 lbs., \$6.25; 20 lbs., \$12.00.

We are in a position to furnish a hardy strain of Creeping Bent stolons for planting greens and lawns vegetatively.

Prices and full information on application.

FAIRWAY MIXTURE

A MIXTURE of grasses for fairways is to be preferred to any one grass and our fairway mixture will give splendid satisfaction wherever used. We make no mystery of its composition and will be glad to furnish any of the grasses separately or prescribe for any condition of soil and climate. For fall sowing we recommend a large proportion of Kentucky Blue Grass, but where quick results are desired more of the rapid growing sorts must be used. Sow 100 lbs. to 150 lbs. to the acre.

1 lb., 45c; 5 lbs., \$2.00; 50 lbs., \$18.00; 100 lbs., \$35.00.

TERRACE MIXTURE

There is nothing more annoying than to have ground washed out. In this mixture we have put quick-growing and deep-rooted grasses. Of course, it depends a great deal on this being well started before very heavy rains. $\frac{1}{2}$ lb., 25c; 1 lb., 45c; 5 lbs., \$2.00; 10 lbs., \$3.75; 20 lbs., \$7.25.

Sulphate of Ammonia, Phosphate of Ammonia and Nitrate of Soda applied sparingly are the best fertilizers for Putting Greens.

We wish to emphasize the fact that one of the important essentials for success in building lawns, lies in the abundant use of Fertilizers, which should be applied at the rate of not less than 600 pounds per acre.

Pulverized Sheep Manure and Pure Bone Meal are the best Fertilizers for lawns. See Fertilizers.

DUTCH HYACINTHS

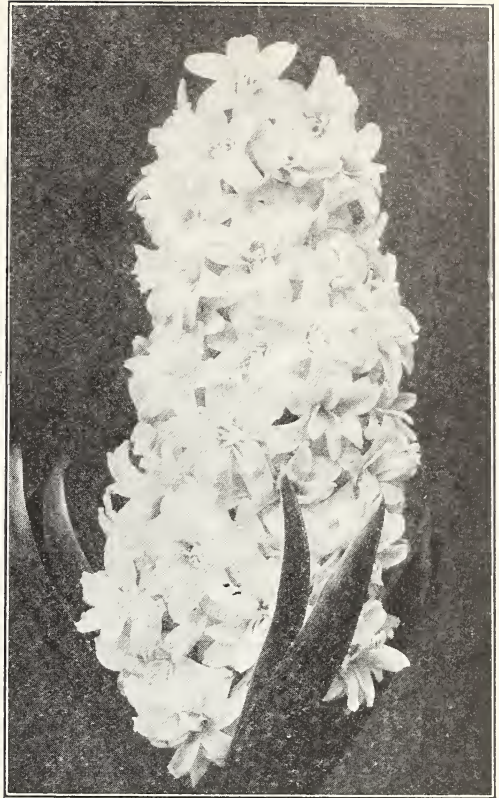
The Hyacinth is so well known and esteemed that any description of its many good qualities is needless. The list now offered includes nearly every shade of red, white, blue, yellow, etc.

CULTURE OF THE HYACINTH

FOR PLANTING HYACINTHS IN OPEN GROUND, the preferable season is September to November, but they can be set out at any later time as long as the ground is open. The best compost for their culture is one-third sand, one-third well-rotted cow manure, and one-third good garden mould; or, where the soil is naturally light, well-rotted cow manure liberally intermixed is all sufficient. The beds composed of the above compost should be well dug to a depth of fourteen inches, and raised from two to four inches above the level of the walk. The bulbs should be planted about six inches deep, and from five to six inches apart. Care must be taken not to press the earth too firmly around and over the bulbs. After planting, rake the bed or border smooth, and after the ground has frozen tolerably hard in early winter, cover with a few inches of dry litter, leaves, evergreen boughs or coarse manure.

FOR THE CULTURE OF HYACINTHS IN POTS, prepare the above compost, adding, if possible, a quantity of leaf mould, or use our Prepared Bulb Fibre. The most favorable time for planting is September, October and November for a succession of bloom; use a four or five-inch pot for a single bulb, and a seven inch for three bulbs. Set the bulbs down in the soil and cover them; do not press them in by force, for this packs the soil under them, and when the roots start they are apt to lift the bulb. After planting, water and set away in a dark place until the pots are well filled with roots. Keep the earth moist, and bring to the light as wanted to bloom. Being exposed to the light for the first time, they are, of course, very delicate, care should, therefore, be exercised not to place them in the direct rays of the sun for two or three days.

FOR CULTURE IN GLASSES, the bulbs should be so placed that only the base touches the water; then place them for the first ten days, in a dark but cool closet or room, to promote the starting of the roots, after which expose them to light and air as much as possible; avoid placing them near gas-light. The water should be changed as it becomes impure; draw the roots entirely out of the glasses, rinse off the fibres in clean water and wash the inside of the glass well. The water should never be allowed to freeze. When the flowers are well advanced, give them a shower of water every day.



SINGLE PURE AND TINTED WHITE

- ALBERTINE**, pure white, early, good forcing variety.
- ARENTE ARENSEN**, pure white, large spike and flower, very early; splendid for forcing.
- BLANCHEUR**, pure white, large broad truss.
- BRITISH QUEEN**, pure white, large truss; very early.
- CORREGIO**, the large, fleshy bells are snow white, and form a perfect truss of great beauty and size; good forcer.
- GENERAL VETTER**, bluish white, very large spike; splendid early forcer.
- GRANDE BLANCHE**, bluish white, large spike and flower; early.
- LA GRANDESSE**, pure white; with immense bells; one of the best in cultivation.
- L'INNOCENCE**, pure white, extra large truss.

SINGLE BLUE, LAVENDER AND PURPLE

- CAPTAIN BOYTON**, bright lavender blue, with silvery shading; handsome long spike.
- ENCHANTRESS**, delicate porcelain blue, large truss.
- GRAND MAITRE**, deep porcelain blue, large truss.
- GRAND MONARQUE**, light blue, large compact spike.
- KING OF BLUES**, dark rich blue, splendid spike.
- MARIE**, dark purple, very large spike.
- PERLE BRILLIANTE**, light blue, large spike and flowers; late flowering.
- QUEEN OF BLUES**, beautiful azure blue, large bells and handsome truss; late.
- REGULUS**, light blue, large bells and spike.

SINGLE YELLOW

- CITY OF HAARLEM**, golden yellow, large well formed truss, extra fine.
- KING OF YELLOWS**, pure yellow, large bell and spike.
- YELLOW HAMMER**, golden yellow, fine large spike; one of the best.

Choice Named Single Hyacinths

EXTRA SELECTED FIRST SIZE BULBS

Prices Per Dozen and Single Bulb Include Postage.

We offer the following named varieties at the uniform price of 25c each; \$2.75 per dozen; \$20.00 per 100.

SINGLE RED, ROSE AND PINK

- ETNA**, brilliant pink, large spike and flower, late flowering.
- GARIBALDI**, brilliant carmine, very early.
- GENERAL DE WET**, light pink, large spike, good flower.
- GENERAL PELISSIER**, deep crimson, fine truss, early.
- GERTRUDE**, deep rose, fine compact spike.
- GIGANTEA**, delicate pink, large bells.
- LADY DERBY**, bright rose, large spike and flower, excellent for forcing or pot culture, large bulb.
- LA VICTORIE**, brilliant dark pink, very large spike; one of the best.
- MARCONI**, light pink, large spike and flower; extra fine.
- MARIE CATHERINA**, deep red, large spike.
- MORENO**, waxy pink; large truss and bells; extra fine variety.
- QUEEN OF PINKS**, brilliant pink; large flower and spike; a great acquisition—one of the best.
- ROBT. STEIGER**, bright crimson, a fine compact spike.
- ROI DES BELGES**, bright scarlet, fine truss.

The above named Hyacinths, 25c each; \$2.75 per dozen; \$20.00 per 100.

If you want Flowers in your House this winter or in your Garden next spring, you must plant Bulbs this fall.

Select Second-Size Named Single Hyacinths

These are smaller than our Extra Selected Exhibition or top size bulbs offered on page 1, but are fine flowering stock, and admirably adapted for pot culture and high-grade bedding where distinct shades of color are desired.

We can furnish them in the following selected varieties at the uniform price of 20c each; \$2.00 per dozen; \$15.00 per 100.

SINGLE RED, ROSE AND PINK

CARDINAL WISEMAN, charming bright rose-pink, large spike.
GENERAL PELISSIER, deep crimson, fine truss, early.
GERTRUDE, deep rose, fine compact spike.
GIGANTEA, delicate pink, large bells.
LADY DERBY, bright rose, large spike and flower, excellent for forcing or pot culture, large bulb.
QUEEN OF PINKS, brilliant pink, large flower and spike.
ROBT. STEIGER, bright crimson, a fine compact spike.
ROI DES BELGES, bright scarlet, fine truss.

SINGLE PURE AND TINTED WHITE

ALBERTINE, pure white, early, good forcing variety.
ARENTEINE ARENDSSEN, pure white, large spike, good forcer.
CORREGIO, pure white, large truss, good forcer.
GRANDE BLANCHE, blush white, large spike and flowers; early.
LA GRANDESSE, pure white, with immense bells, one of the best in cultivation.
L'INNOCENCE, pure white, extra large truss.

SINGLE BLUE, LAVENDER AND PURPLE

ENCHANTRESS, porcelain blue, large compact truss.
GRAND MAITRE, deep porcelain blue, large truss.
KING OF BLUES, dark, rich blue, splendid spike.
PERLE BRILLIANT, light blue, large spike and flowers.
QUEEN OF BLUES, beautiful azure blue, large bells and handsome truss; late.

SINGLE YELLOW

KING OF YELLOWS, pure yellow, large bell and spike.
YELLOW HAMMER, golden yellow, large spike.

Above named Hyacinths, 20c each; \$2.00 per dozen; \$15.00 per 100. Prices per dozen and single bulb include postage.

PREPARED BULB FIBRE

Growing bulbs, such as Dutch Hyacinths, Tulips and Narcissus in special prepared fibre has proven a great success. 50c per peck; \$1.25 per bushel; \$4.50 per bale. See page 11 for full description.

Round Bed of Named Single Hyacinths, Second-Size



THIS illustration represents a bed 15 feet in circumference, or 5 feet across, composed of 5 circular rows, requiring a total of 100 bulbs, planted 6 inches apart, as follows:

Combination No. 1. Center row contains 9 Red Hyacinths; second row contains 14 White Hyacinths; third row contains 20 Blue Hyacinths; fourth row contains 25 Pink Hyacinths; fifth row contains 32 Dark Blue Hyacinths.

Price \$15.00, not prepaid.

Combination No. 2. Consists of 100 Un-named Hyacinths, mixed shades that will produce a charming effect.

Price \$12.00; not prepaid.

Square Bed of Named Single Hyacinths, Second-Size

A bed six feet square divided diagonally into four equal parts, requires a total of 169 bulbs planted six inches apart.

PINK AND BLUE COMBINATION requires 85 Pink and 84 Blue Hyacinths.

CRIMSON AND WHITE COMBINATION requires 85 Crimson and 84 White Hyacinths.

Price for either Combination—Our Select Second Size, Named Hyacinths, \$25.35, not prepaid.

Choice Un-named Single Hyacinths

FOR BEDDING AND FORCING IN SEPARATE COLORS AND MIXED SHADES

These are made up of varieties selected for beds and borders, or for forcing for cut flowers, and are of such superior quality as to be entirely satisfactory to florists who use large quantities of them. We offer the following unnamed varieties at the uniform price of 15c each; \$1.75 per dozen; \$12.00 per 100.

Red, mixed shades. Pure White. Dark Blue and Purple. Yellow
 Rose. White, tinted. Light Blue. MIXED, all colors

Miniature or Dutch Roman Hyacinths

These may be planted close together in pots or boxes, also in beds in the open ground with charming effect. We can furnish named varieties in the following colors: Dark Red, Rose and Pink. Dark Blue, Light Blue, Pure White, and All Colors Mixed. 12c each; \$1.00 per dozen; \$7.00 per 100.

Collections of Named Single Hyacinths

Selection for Growing in Water.

This selection is made up of sorts which are especially adapted for the purpose.

12 distinct named varieties. \$2.75

Selection for Growing in Pots.

A selection of distinct sorts best adapted for the purpose.

12 distinct named varieties. \$2.75

For cultural notes see page 1.

HYACINTH GLASSES

BELGIAN OR TALL SHAPE. Blue, Claret, Crystal and Green colors. 35c each; \$3.50 per dozen.

MATT GREEN HYACINTH VASES. Tye pattern. 50c each; \$5.00 per dozen. Hyacinth Glasses and Lily Bowls CAN NOT be sent by mail.



Belgian



Tye Pattern

If you want Flowers in your House this winter or in your Garden next spring, you must plant Bulbs this fall.

TULIPS

Tulips are one of the most ornamental flowers grown; will thrive in any rich soil or situation if cultivated the same as the Hyacinth. Their brilliant colors impart a rich and beautiful appearance to the lawn in early spring. They can be grown in the house in pots and will force well with Hyacinths under the same treatment. For outdoor planting, October and November are the most favorable months. Have the ground well drained; plant from three to four inches deep and about six inches apart.

Darwin Tulips May Flowering

The Darwin are late May-flowering garden Tulips, producing very large bowl-formed flowers of symmetrical shape, on tall, strong stems, 2 to 3 feet high, and are effective grown in groups, in the shrubbery or herbaceous border. They far surpass in color and brilliancy anything before known in Tulips. They include almost every conceivable color and shade.

BARON TONNAYE (26 inches.) Bright pink margined blush—base white, tinged blue. A long and beautiful flower. 6c each; 45c per dozen; \$3.00 per 100.

BARTIGON. (24 inches.) Large flower of fiery crimson, with pure white base, one of the best of its color. 6c each; 45c per dozen; \$3.00 per 100.

BLUE AMIABLE. Heliotrope, inside dark violet-purple with a blue base; very large and handsome. 7c each; 60c per dozen; \$4.50 per 100.

CLARA BUTT. A large flower of remarkable beauty; color soft salmon pink, shaded rose. 6c each; 45c per dozen; \$3.00 per 100.

DREAM. Beautiful delicate lilac—large globular flower. 7c each; 65c per dozen; \$4.50 per 100.

FARNCOMBE SANDERS. Immense flower of the most brilliant scarlet; one of the best and showiest. 6c each; 45c per dozen; \$3.00 per 100.

FRA ANGELICO. Dark purplish brown, early, good forcer. 7c each; 60c per dozen; \$4.00 per 100.

LA TULIPE NOIRE. Deep maroon black; the darkest and finest form of Darwin Tulip; strong stem and large flower. 8c each; 80c per dozen; \$5.50 per 100.

MADAME KRELAGE. Soft lilac-rose, with a broad margin of blush pink; large flower on a very tall stem; good for forcing. 6c each; 45c per dozen; \$3.00 per 100.

PRIDE OF HAARLEM. Magnificently formed flower of immense size; color brilliant, deep salmon-rose, shaded with scarlet; electric blue base. 6c each; 45c per dozen; \$3.00 per 100.

PRINCESS ELIZABETH. (26 inches.) Large flower; rich rose, toning to silvery rose at edges, inside deep rose, white base. 7c each; 60c per dozen; \$4.00 per 100.

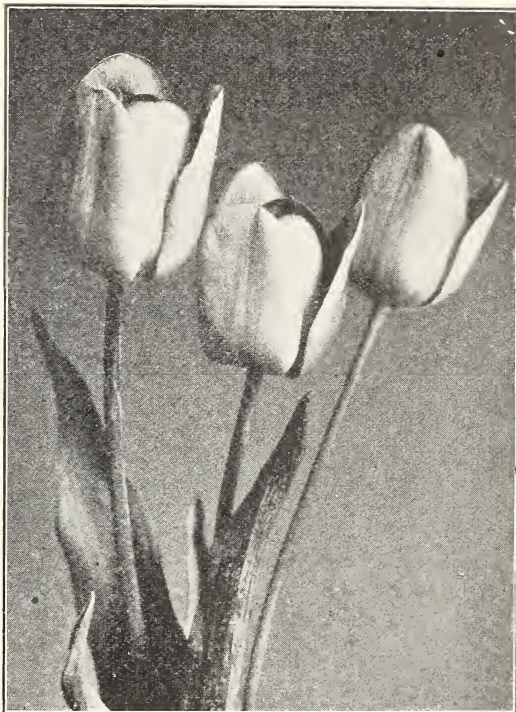
REV. EWBANK. Lilac mauve, shading to silvery heliotrope at edge, very beautiful and distinct color; good forcer. 6c each; 45c per dozen; \$3.25 per 100.

WHITE QUEEN. A large globular flower of pure white, faintly flushed with delicate blush. 6c each; 50c per dozen; \$3.50 per 100.

WILLIAM COPLAND. Blue lilac; highly recommended for early forcing. 6c each; 50c per dozen; \$3.50 per 100.

WM. PITT. (22 inches.) Dark crimson shaded purple on the outer petals, large flower of distinct color and great beauty. 7c each; 60c per dozen; \$4.00 per 100.

FINEST MIXED. Great variety of all colors and shades. 6c each; 35c per dozen; \$2.50 per 100.



Darwin Tulips

Breeder Tulips

Breeders, formerly listed among the Cottage Tulips, really form a distinct class by themselves. These unbroken forms of the old Cottage Tulips are a most interesting class of Tulips. They have become very popular lately on account of their refined, peculiar colors and vigorous growth. The enormous flowers carried on strong stems are very effective and especially suitable for garden decoration.

APRICOT. Bronzy buff, shaded orange, large peculiar shaped flower. 12c each; \$1.20 per dozen; \$8.50 per 100.

BRONZE QUEEN. (Clio.) Delicate shade of brown, inside tinted golden bronze, beautiful tall stemmed flower of great substance; good forcer. 7c each; 75c per dozen; \$5.00 per 100.

CARDINAL MANNING. (Goliath.) Dark wine red, flushed rosy bronze, very peculiar color; large flower. 8c each; 80c per dozen; \$5.50 per 100.

DOM PEDRO. A beautiful shade of coffee brown, shaded maroon, distinct attractive flower. 12c each; \$1.20 per dozen; \$8.50 per 100.

GODET PARFAIT. Bright violet, a very remarkable, beautiful color, large substantial flower. 12c each; \$1.20 per dozen; \$8.50 per 100.

KLOPSTOCK. Fine lilac, immense flower. 10c each; \$1.00 per dozen; \$7.50 per 100.

LOUIS XIV. Rich dark purple, shaded steel blue, heavily flushed bronze, edged golden brown; enormous size and stately bearing. 20c each; \$2.00 per dozen; \$14.00 per 100.

MARIE LOUISE. Rose, flushed orange-salmon, a pleasing combination of colors; very attractive. 10c each; \$1.00 per dozen; \$7.00 per 100.

PANORAMA. Deep orange-red, shaded mahogany, large globular flower; good forcer. 8c each; 80c per dozen; \$5.50 per 100.

PRINCE OF ORANGE. (Orange Beauty.) Orange scarlet with paler edge; large, beautiful flower. 10c each; \$1.10 per dozen; \$7.50 per 100.

SALOMON. Lilac shaded silvery white, white base; a magnificent Tulip. 8c each; 85c per dozen; \$6.50 per 100.

TURENNE. (MacMahon.) Purplish brown with soft yellow edge, very large and early. 8c each; 85c per dozen; \$6.50 per 100.

VELVET KING. (Dreadnaught.) Velvety black, enormous flower on strong stem; very showy. 8c each; 85c per dozen; \$6.50 per 100.

If you want Flowers in your House this winter or in your Garden next spring, you must plant Bulbs this fall.

Prices per dozen and single bulb include postage.

Late May Flowering Single Tulips

This beautiful class is becoming more popular as it becomes better known. These Tulips are distinct from the early flowering sorts, coming into bloom two or three weeks later and extending the Tulip season over a period of four weeks or more. On account of their extreme hardiness, they are especially adapted for the permanent hardy flower border, where they should be liberally planted in clumps or masses. They may also be naturalized in grass, wild gardens, etc. For bedding they are superb, while as cut flowers they are much to be preferred to the early type, having long stems with flowers of great substance that will remain in perfect condition for a long time.

In planting, the bulbs should be set a little deeper than ordinary tulips, a covering of 4 inches being about right.

AVIS KENNICOT. (25 inches.) Long pointed bloom of pure yellow, edges of petals slightly frilled; black base. 12c each; \$1.35 per dozen; \$9.50 per 100.

GESNERIANA SPATHULATA. (28 inches.) Intense crimson-scarlet, with glittering blue-black center. The tallest, largest flowered and showiest of all Tulips for bedding out in masses. Flowers of enormous size. 6c each; 55c per dozen; \$3.75 per 100.

GRENADEER. (24 inches.) Rich orange scarlet flowers, one of the most beautiful late Tulips. 7c each; 65c per dozen; \$4.50 per 100.

INGLESCOMBE PINK. (Salmon Queen.) (18 inches.) Bright rose-pink with a salmon sheen, large globular flower. 6c each; 45c per dozen; \$3.00 per 100.

INGLESCOMBE YELLOW. Large globular flower, long strong stem, good for borders and cutting. May be called the Yellow Darwin Tulip on account of its Darwin Type. 6c each; 45c per dozen; \$3.00 per 100.

ISABELLA. (Blushing Bride, Shandon Bells.) (18 inches.) Large, long, handsome flower, silvery white, suffused soft carmine-rose towards the edge; center creamy yellow and green. 6c each; 50c per dozen; \$3.50 per 100.

JOHN RUSKIN. (16 inches.) Salmon rose edged lemon yellow, inside heliotrope with golden border and base; large flower of lovely shape, highly recommended. 7c each; 65c per dozen; \$4.50 per 100.

LA CANDEUR. (Parisian White.) (15 inches.) Pure white changing to silvery pink; large egg-shaped flowers. 6c each; 55c per dozen; \$3.75 per 100.

LA MERVEILLE. (18 inches.) A magnificent variety with very large, sweet scented flowers; color, salmon-rose overlaid with orange-red, very effective in beds and borders. 6c each; 45c per dozen; \$3.00 per 100.

MR. DAMES. A large clear yellow flower of great beauty on strong stem. 12c each; \$1.20 per dozen; \$8.50 per 100.

MRS. MOON. (25 inches.) Rich golden yellow, beautiful large flower of great substance. The blooms are long and pointed, the outer petals reflexed; one of the most beautiful late Tulips. 8c each; 85c per dozen; \$6.50 per 100.

ORANGE KING. Deep orange, shaded rose, inside orange scarlet with yellow center; large sweet scented flower, carried on a strong stem, unusual substance. 6c each; 50c per dozen; \$3.50 per 100.



MAY FLOWERING TULIPS

PICOTEE. (Maiden's Blush.) (24 inches.) White, faintly edged with pink, which suffuses the entire flower as it ages; a beautiful cut flower. 6c each; 45c per dozen; \$3.00 per 100.

SIRENE. (Lily Flowered.) Beautiful cerise pink, margined pale pink, with white base, one of the Lily shaped varieties of exquisite beauty. 8c each; 80c per dozen; \$5.50 per 100.

SWEET NANCY. A very large white egg-shaped flower, edged and suffused with rose. 6c each; 50c per dozen; \$3.50 per 100.

CHOICEST MIXED. A splendid mixture of all colors, including sweet scented varieties. 6c each; 45c per dozen; \$3.00 per 100.

Single Early Tulips

The letters, a, b, c, following the varieties, indicate their earliness of bloom: the A's flower together, and are the earliest; B, next, etc. The figures indicate the height attained in inches, to aid in arranging flower beds.

	Each	Doz.	100
BELLE ALLIANCE, b7, brilliant scarlet, large flower, sweet scented; fine for bedding and forcing.....	\$0.07	\$0.65	\$4.50
COTTAGE MAID, b6, rosy pink, edged with white; a charming variety for bedding and late forcing ..	.07	.75	5.00
DUCHESSE DE PARMA, b9, brownish red with yellow border, large flower; good forcer and breeder ..	.07	.75	5.00
DUSART, b8, dark scarlet, large and very robust, fine for parks; a grand flower; finest scarlet bedder ..	.07	.65	4.50
GRAND DUC (Keiserkroon), b9, deep crimson, broad orange-yellow margin, large and effective.....	.08	.85	6.50
JOOST VAN VONDEL, b8, crimson, flamed white, large and distinct.....	.07	.65	4.50
KING OF YELLOWS, b9, deep golden yellow; extra large and showy; good for early forcing.....	.07	.65	4.50
L'IMMACULEE, b7, pure white, very early and fine; excellent for forcing and bedding.....	.06	.45	3.00
MOLIERE. Purple violet.....	.06	.55	3.50
PRIMROSE QUEEN. Sulphur yellow; splendid bedder.....	.06	.55	3.50
PROSERPINE, a8, carmine-rose, rich, silky and effective, beautifully shaped large flower .....	.08	.85	6.50
PROSPERITY. Dark pink; good forcer and bedder.....	.06	.55	3.50
THOMAS MOORE, b10, orange-scarlet, effective large Tulip; sweet scented .....	.06	.55	3.75
VERMILION BRILLIANT, b8, deep dazzling vermilion; extra fine for pots and massing.....	.07	.75	5.00
WHITE SWAN, b9, large, pure white egg-shaped flower on tall stems.....	.06	.55	3.50
YELLOW PRINCE, b7, golden yellow, extra large and showy, scented as a Tea Rose.....	.07	.65	4.50
SEPARATE COLORS, Pink, Red, Striped Red and Yellow, Violet and Purple, White and Yellow.....	.06	.45	3.25
FINE MIXED, including all colors and shades.....	.06	.35	2.50

Beds of Single Early Tulips

A bed eighteen feet in circumference or six feet across, requires a total of 200 bulbs planted five inches apart.

Yellow and Scarlet Combination—100 Yellow and 100 Scarlet Tulips.

White, Crimson, Yellow and Pink Combination—50 White, 50 Crimson, 50 Yellow and 50 Rose Tinted Tulips.

Price for either Combination, \$7.00 each; not prepaid.

The above combinations are prepared from Named Varieties that will bloom together.

Prices per dozen and single bulb include postage.

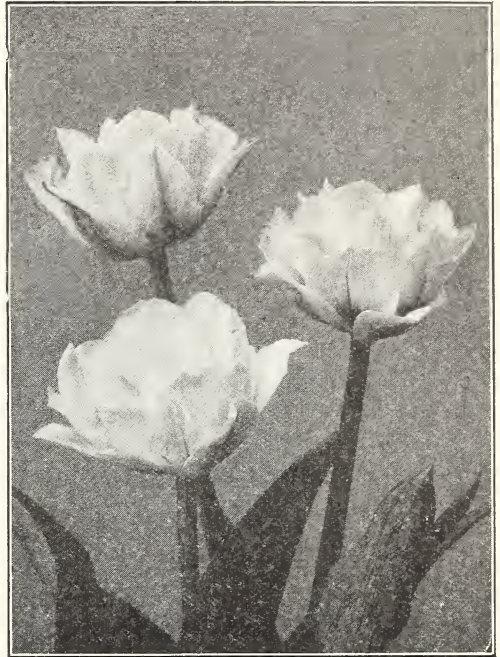
Double Tulips

This class of Tulips is one of the most valuable. The earlier varieties are admirably adapted for pot culture and form a pleasing contrast to the Single Tulips in the greenhouse or conservatory. When planted in the open border they are very showy, and a succession of bloom may be had by a judicious selection from the earlier and later varieties. The Rex Rubrorum and La Candeur form a dense mass of bloom when grown in beds and the flowers remain in perfection of bloom longer than those of the single varieties. For Cultural Directions, etc., See Tulips, Page 5.

- COURONNE D'OR**, b8, golden yellow flushed orange, large handsome flower; excellent for growing in pots or beds. 7c each; 75c per dozen; \$5.00 per 100.
- GLORIA SOLIS**, a7, deep crimson with broad golden margin; very large. 7c each; 75c per dozen; \$5.00 per 100.
- IMPERATOR RUBRO-RUM**, a9, rich crimson-scarlet; extra fine for forcing. 8c each; 80c per dozen; \$5.75 per 100.
- LA CANDEUR**, b8, pure white, extensively grown for bedding. 7c each; 75c per dozen; \$5.00 per 100.
- LUCRETIA**, deep pink, extra large. 7c each; 60c per dozen; \$4.25 per 100.
- MURILLO**, b8, blush-white shaded rose, large flowers; fine for forcing and bedding. 7c each; 60c per dozen; \$4.00 per 100.
- RUBRA MAXIMA**, a9, dark crimson-scarlet; splendid early forcer and good bedder. 7c each; 70c per dozen; \$5.00 per 100.
- SCHOONOORD**, b10, the finest double white; a sport from Murillo. 7c each; 75c per dozen; \$5.00 per 100.
- TEA ROSE**, b10, saffron-yellow changing to rosy apricot; good forcer for growing in pots and pans. 7c each; 65c per dozen; \$4.50 per 100.
- TOURNESOL**, a7, scarlet margined yellow; one of the best for forcing. 7c each; 75c per dozen; \$5.50 per 100.
- SEPARATE COLORS**, Pink, Red, Striped Red and Yellow, White and Yellow. 7c each; 60c per dozen; \$4.00 per 100.
- FINE MIXED**, including all colors and shades. 6c each; 55c per dozen; \$3.50 per 100.

Prices Per Dozen and Single Bulb Include Postage

McCULLOUGH'S "NORWOOD" collection of **DOUBLE TULIPS** consists of 200 superfine, mixed double Tulips. Price, \$7.00, not prepaid.



DOUBLE TULIPS

IF YOU WANT FLOWERS
In your House this Winter or in your Garden next Spring
YOU MUST PLANT BULBS THIS FALL

CROCUS

This brilliant and universally admired spring flower will thrive in any soil or situation, but to be brought to the highest perfection it should be grown in an open bed or border of deep, rich, sandy loam. When planted in large groups or lines of distinct colors, the effect is very striking and the bulbs are now offered so cheap as to justify their liberal use. They are invaluable for pot culture. To secure a succession of bloom, commence planting early in October; 6 to 8 bulbs in a pot (the named varieties are best for this purpose), using rich soil and planting about an inch deep. Place the pots on a surface of ashes, cover the top one inch deep with soil until the leaves appear, when they may be removed to the house.

LARGE FLOWERING NAMED CROCUS

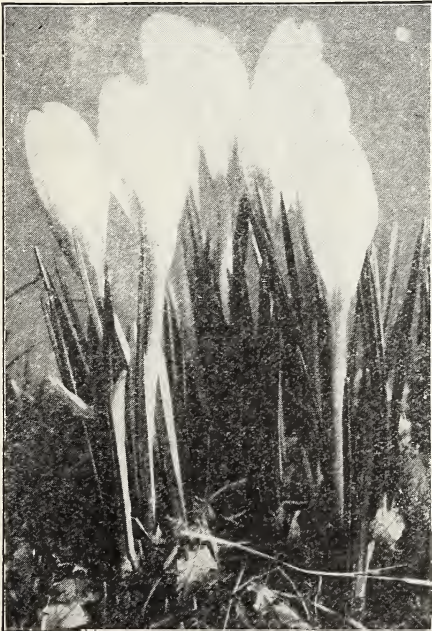
These are large bulbs of the best varieties, remarkable for richness of color and size of their flowers, and are the best to use for pot culture or where extra fine results are wanted.

	Per Doz.	Per 100
ALBION , lavender, striped white and violet.....	\$0.40	\$2.75
BARON BRUNOW , purplish mauve, shading to deep purple at tips.....	.40	2.75
KING OF BLUES , light blue, large flower.....	.40	2.75
KING OF WHITES , pure white; extra large flower.....	.40	2.75
LA MAJESTEUSE , violet striped white; large flower.....	.40	2.75
LADY STANHOPE , white, extra large.....	.40	2.75
MAMMOTH YELLOW , large golden yellow.....	.50	3.75
MONT BLANC , large, pure white; extra.....	.40	2.75
NON PLUS ULTRA , light blue, with white border....	.40	2.75
PRINCE ALBERT , dark blue; extra fine.....	.40	2.75
SIR WALTER SCOTT , white, striped with violet....	.40	2.75

MIXED CROCUS

The bulbs offered under this head are smaller than our Large Flowering Named Sorts, but are quite satisfactory for planting in the grass or for any position out of doors.

	Per Doz.	Per 100
Blue and Purple	\$0.30	\$2.00
Striped and Variegated.....	.30	2.00
White.....	.30	2.00
Yellow.....	.40	2.75
Yellow, Extra Large.....	.45	3.00
Mixed, All Colors.....	.30	2.00



CROCUS

If you want flowers in your House this winter or in your Garden next spring, you must plant Bulbs this fall.

NARCISSUS OR DAFFODILS

A beautiful class of early blooming flowers, both for outdoor blooming and for use as cut flowers in the house. Their delicious fragrance, easy culture and thriftiness entitles them to the greatest popularity.

The double and single sorts are perfectly hardy and need not be disturbed oftener than once in three or four years, and not then unless they have become too much crowded by offsets.

Plant in the fall in good garden soil, about three or four inches deep and two to six inches apart.

SINGLE NARCISSUS

BARRI CONSPICUA. Large, broad yellow perianth; broad, short crown edged with scarlet; a robust, strong grower and free bloomer; should be grown in quantity for cutting, as it lasts longer than most sorts. 15c each; \$1.25 per dozen; \$8.00 per 100.

EMPEROR. Perianth deep primrose-yellow, trumpet large, rich golden yellow; one of the finest Daffodils in cultivation; should be in every collection; a magnificent flower, much prized for cutting. 20c each; \$1.75 per dozen; \$12.00 per 100.

EMPRESS. Perianth white, trumpet rich yellow, serrated at edges; a magnificent large variety, bold, erect and of rare beauty for cutting. 20c each; \$1.75 per dozen; \$12.00 per 100.

GLORY OF SASSENHEIM. Perianth white, trumpet golden yellow, a large flower and strong grower. 20c each; \$1.75 per dozen; \$12.00 per 100.

GOLDEN SPUR. Perianth deep yellow, trumpet golden yellow; a charming, highly perfumed flower, flowering early and freely. 20c each; \$1.75 per dozen; \$12.00 per 100.

LUCIFER. Perianth white, cup intense glowing orange scarlet, splendid garden plant as color lasts well in the sun. 20c each; \$1.75 per dozen; \$12.00 per 100.

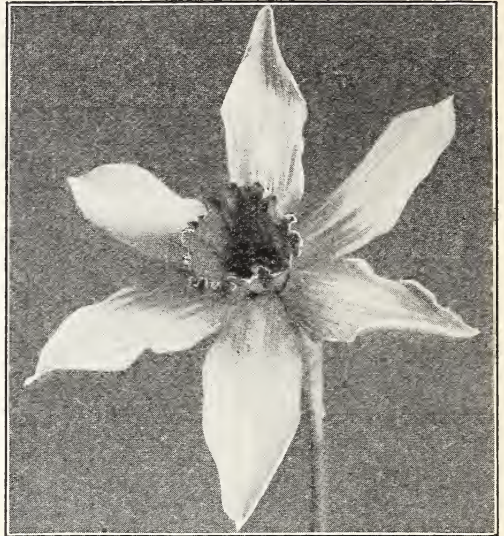
MRS. LANGTRY. Broad white perianth and white cup opening pale primrose, free flowering. 10c each; \$1.00 per dozen; \$7.00 per 100.

POETICUS. (Pheasant's Eye or Poet's.) Flowers pure white with distinct red crown; sweet scented. 8c each; 85c per dozen; \$6.00 per 100.

POETICUS ORNATUS. Large symmetrical flower; broad white perianth with red crown, very early and valuable for forcing and cutting. 15c each; \$1.25 per dozen; \$9.00 per 100.

SIR WATKIN. Large primrose perianth, cup golden yellow, fringed, a magnificent variety. 20c each; \$1.75 per dozen; \$12.00 per 100.

VICTORIA. Perianth creamy white, trumpet rich yellow, delicately perfumed; a strong grower with massive flowers which stand boldly erect. 20c each; \$1.75 per dozen; \$12.00 per 100.



Narcissus Barri Conspicua

DOUBLE NARCISSUS

VON SION. The famous "Old Double Yellow Daffodil," rich golden yellow perianth and trumpet; one of the best forcing sorts. 15c each; \$1.15 per dozen; \$10.00 per 100.



Narcissus Paper White Grandiflora

Polyanthus Narcissus

PAPER WHITE GRANDIFLORA. An improved large flowering form of the Paper White, possessing all the good qualities of that popular and easily-grown variety. It is more vigorous and earlier, producing pure white flowers of large size and good substance in large trusses. Is largely used for early forcing for cut flowers, being brought in without difficulty early in December. Can be grown in bowls of water and pebbles the same as Chinese Lily. Their tall spikes of bloom bear from 6 to 12 flowers each.

Selected Bulbs, 8c each; 80c per dozen; \$5.50 per 100.

Mammoth Bulbs, of special value for growing in water. 10c each; \$1.10 per dozen; \$7.50 per 100.

GRAND SOLIEL D'OR. Rich yellow flower with orange cup. 20c each; \$1.75 per dozen; \$11.00 per 100.

LILY BOWLS. To hold one bulb, 25c each; 3 bulbs, 50c each. Cannot be sent by mail.

PEBBLES, for filling Lily Bowls, 10c per quart.

MUSHROOM SPAWN

(One pound of Spawn is sufficient for a bed 2x6 feet.)

American Made Pure Culture Mushroom Spawn. A very superior article,

made in this country from carefully selected spawn, which it is claimed is much more vigorous than the imported article, and will produce Mushrooms of a very superior quality and flavor. The popularity of Pure Culture Spawn is increasing rapidly and many of the large growers are now using it. They claim it is a surer crop. Amateurs have much the best results with this kind. By express—customer to pay charges—per brick, 30c; 5 bricks, \$1.25; 100 bricks, \$20.00. By mail, 35c per brick; 5 bricks, \$1.50; postpaid.

Treatise on Mushroom Culture, 10c, or given with an order of 10 bricks of Mushroom Spawn.

MUSHROOMS, HOW TO GROW THEM. (Wm. Falconer.) The most practical work on the subject. \$1.75



Chionodoxa GLORY OF THE SNOW

A hardy, early flowering bulbous plant which is closely allied to the Scilla but differs among other characters in having short tube to the corolla. A good companion to the Scilla and Snowdrop.

GIGANTEA. Light blue, white eye, large flowered. 7c each; 70c per dozen; \$5.00 per 100.
LUCILLAE. Bright blue with white eye. 5c each; 45c per dozen; \$3.00 per 100.

Grape Hyacinths MUSCARIA

Charming, hardy spring flowering bulbs. They are something like the Hyacinth but the clusters are smaller and the individual flowers are smaller and of different shape; invaluable for naturalization.

BOTRYOIDES ALBA. White, 8c each; 80c per dozen; \$6.50 per 100.
BOTRYOIDES COERULEA. Blue. 5c each; 35c per dozen; \$2.50 per 100.
HEAVENLY BLUE. The best and largest of the Grape Hyacinths. Good for pot culture as well as for outdoors. 5c each; 45c per dozen; \$3.00 per 100.

Calla Lilies RICHARDIA

An old favorite, and of easy culture, the only requisite for successful culture being rich soil and plenty of water when growing. By allowing them to rest through the summer, an abundance of bloom may be had the following winter.

WHITE CALLA OR LILY OF THE NILE

This old favorite is too well known to require any description.

Monster Bulbs, postpaid. 35c each; \$3.50 per dozen
Extra Large Bulbs, postpaid. 30c each; \$3.00 per dozen
Large Bulbs, postpaid. 25c each; \$2.50 per dozen
ELLIOTTIANA. A yellow Calla of great beauty. It has the habit of growth of the white variety, with flowers of same size and shape, but of a rich golden yellow color; the foliage is dark green, with a number of creamy white spots, which add much to its beauty. 35c each; \$3.50 per dozen.

GODFREY OR EVERBLOOMING CALLA. Short, sturdy growth; very free flowering; medium sized white flowers; excellent for cutting. 25c each; \$2.50 per dozen.
Extra Large Bulbs, 35c each; \$3.50 per dozen.

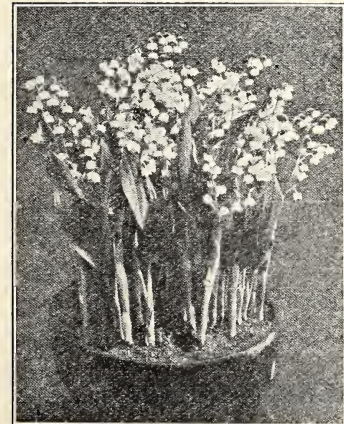
Scilla Squills—Harebell

Very early flowering bulbs, doing well in ordinary soil, producing fine, graceful spikes of bell-shaped flowers. Very showy and attractive as pot plants, and require about the same treatment as Hyacinths.

The Scilla Campanulata are splendid for naturalizing, because they will flower in shady places.

Scilla Siberica is used as a companion to Crocus for borders or massing.

Campanulata Blue Queen. Large bright blue flowers. 5c each; 50c per dozen; \$3.50 per 100.



Lily of the Valley

Siberica. A perfect gem, with flowers of richest blue, dwarf and hardy, excellent planted with Crocus and Snowdrops, or in borders and massing. 6c each; 65c per dozen; \$4.50 per 100.

Snowdrops

One of the earliest white flowers of spring. They should be planted in beds in the border, or in clumps in the lawn, and will endure any amount of hard treatment; still, no flower better repays care and attention. Plant the bulbs in September or October—the earlier the better—to enable them to become well-established before freezing weather. Set about two or three inches deep, and one inch apart, in clumps or triple rows; if planted singly they are not conspicuous. The bulbs should not be kept long out of the ground, and should not be disturbed oftener than once in 2 or 3 years. For growing in pots or baskets, the double are the better.

Single Flowering, 5c each; 45c per dozen; \$3.75 per 100.
Double Flowering, 8c each; 80c per dozen; \$5.00 per 100.



Freesia, Improved Purity

Freesia

This is one of the most popular and charming bulbs we offer for pot culture, flowering in the winter and spring, in the conservatory or window garden. Six bulbs should be planted in a four inch pot. They force rapidly, and can be had in bloom by Christmas if desired. The flowers are produced six to eight on stems about nine inches high, and are particularly useful for cutting, remaining in good condition, kept in water, for two weeks.

IMPROVED PURITY. A distinct and greatly improved type producing large sprays of pure white flowers with a yellow blotched throat of immense size and delicious fragrance. It is very free blooming and of great value for forcing for cut flowers.

Large Bulbs. 25c per dozen; \$2.00 per 100
Mammoth Bulbs. 45c per dozen; 3.25 per 100
Monster Bulbs. 60c per dozen; 4.00 per 100

RAINBOW. We can now supply this long waited for, beautiful colored Freesia.

Orange, Large Bulbs. 65c per dozen; \$5.00 per 100
Pershing, Pink, large bulbs. 65c per dozen; 5.00 per 100
Finest Mixed, all colors. 55c per dozen; 4.00 per 100

LILY OF THE VALLEY

This popular and fragrant flower should receive more attention than is usually given. Like most other plants it well repays for being well treated, and if given a liberal top-dressing of well-rotted stable or sheep manure in fall or early spring, it will show the effect by increased size and vigor of the flowers. We offer strong clumps suitable for out door planting.

50c each; \$5.00 per dozen; \$40.00 per 100; by mail, 60c each.

For prices on Lily Bowls, Marble Chips, Pearl Chips, Pebbles, Mica Grit and Prepared Bulb Fibre or Peat Moss, see page 11.

SUBURBAN LAWN GRASS SEED

Suburban Lawn Grass Seed, sown in fall, makes beautiful and permanent lawns. See page 1.

If you want Flowers in your House this winter or in your Garden next spring, you must plant Bulbs this fall.

LILIES

No class of plants capable of being cultivated out of doors possesses so many charms. Rich and varied in color, stately and handsome in habit, profuse in variety, and of delicious fragrance, they stand out prominently from all other hardy plants, and no herbaceous border, however select, should be without a few of its best sorts. With a well selected collection, Liliums may be had in bloom from June until October.

Culture. They should be planted in good, rich, loamy soil, abundantly mixed with very rotten cow manure. Plant about four inches deep, and during the winter it is advisable to cover the surface of the bed with a thin layer of manure, which will not only afford a slight protection to the bulbs, but will materially enrich the soil. In spring the manure may either be removed or dug in between the rows.

Pot Culture. The best soil to use is a rich loam, with the addition of one-third well-rotted manure. Select a large sized pot, say eight or ten inches, so as to allow of deep planting—a most essential matter where there are upper roots to protect. Dust a little charcoal about the bulb to keep it fresh, and cover at least two inches with soil.

After potting, one of the most important things to observe is the proper placing of the pots containing the bulbs. Like all other bulbs, to get the best results in flowering, the pots must be filled with roots before the top starts to grow; and to do this, they must be placed in some cool place and excluded from the light, until, on examination the roots are found to be formed around the ball of earth.

Orders for Lilies cannot be filled before November, excepting Candidum and Harrisii, which are ready August 1.

Prices on single bulbs are postpaid. By the dozen or hundred, they will be forwarded at expense of purchaser.

AURATUM. (Golden-banded Lily.) Undoubtedly one of the finest. Its large, graceful, fragrant flowers are composed of six petals of a delicate ivory-white color, thickly studded with chocolate crimson spots, and striped through the center with a golden yellow band; 3 to 5 feet.

Large Bulbs, 8 to 9 inches, 30c each; \$2.75 per dozen; \$20.00 per 100.

Extra Large Bulbs, 9 to 11 inches, 40c each; \$4.00 per dozen; \$30.00 per 100.

CANDIDUM. (Annunciation or Madonna Lily.) The flowers are pure white and very fragrant, borne on long stems. To succeed with it, it should be planted early in the autumn, so that it can make some growth before frost; 3 to 4 feet; May-June.

Large Bulbs, 25c each; \$2.50 per dozen; \$17.50 per 100.

Extra Large Bulbs, 35c each; \$3.50 per dozen; \$25.00 per 100.



Liliium Auratum

HARRISII. (Bermuda Easter Lily.) This splendid Lily is undoubtedly one of the best for house culture, as it comes quickly into bloom and flowers freely. The flowers are trumpet-shaped, pure waxy-white and delightfully fragrant.

Large Bulbs, 7 to 9 inches, 40c each; \$4.00 per dozen; \$30.00 per 100.

LONGIFLORUM FORMOSUM. The plant grows about 3 feet high and produces beautiful, snow-white, trumpet-shaped flowers, 6 to 8 inches long. It is perfectly hardy, blooming in the open in June and July. This Lily is also a very important winter flowering type.

Large Bulbs, 7 to 9 inches, 25c each; \$2.50 per dozen; \$17.50 per 100.

LONGIFLORUM GIGANTEUM. A splendid type, later flowering than the others, but of strong, free, healthy growth, and while it can be forced into bloom for Easter it is just the thing for Decoration Day and later flowering; quite hardy and good for outdoor planting.

Large Bulbs, 7 to 9 inches 35c each; \$3.50 per dozen; \$25.00 per 100.

ÆGAL (The Regal Lily.) This grand new species is acknowledged to be the finest Lily in cultivation and is undoubtedly the most popular novelty that has been offered for many years. It is absolutely hardy and is excellent for forcing under glass. The white flowers are long, trumpet-shaped, slightly suffused with pink, with a beautiful shade of canary yellow at the center, extending part way up the trumpet. It is delightfully perfumed, but without the heavy, oppressive odor of most Lilies. **60c each; \$6.50 per dozen.**

SPECIOSUM. "Japan Lily." The varieties of this class are magnificent border plants, and also excellent for pot culture. All are perfectly hardy, and are among the most satisfactory Lilies to grow.

Speciosum Album. Pure white, very fragrant.

Large Bulbs, 8 to 9 inches, 40c each; \$4.00 per dozen; \$30.00 per 100.

Speciosum Rubrum or Roseum. White, suffused and spotted with crimson.

Large Bulbs, 8 to 9 inches. 30c each; \$2.75 per dozen; \$20.00 per 100.

Extra Large Bulbs, 9 to 11 inches, 40c each; \$4.00 per dozen; \$30.00 per 100.

TIGRINUM. "Tiger Lily." Orange-salmon, spotted with black. **25c each; \$2.25 per dozen; \$17.50 per 100.**

If you contemplate making a Lily bed, kindly give us dimensions of same, and we will be pleased to submit you an estimate, stating suitable varieties and lowest cost.



Liliium Longiflorum Giganteum

If you want Flowers in your House this winter or in your Garden next spring, you must plant Bulbs this fall.

Lily Bowls

- LILY BOWLS**, to hold 2 bulbs, **25c** each.
- LILY BOWLS**, to hold 3 bulbs, **35c** each; 4 bulbs, **50c** each; 6 bulbs, **75c** each.
- FANCY LILY BOWLS**. Assorted colors, to hold 3 bulbs, **50c** each; 4 bulbs, **75c** each; 6 bulbs, **\$1.00** each.
- MARBLE CHIPS** for filling Lily Bowls.....**5c** per lb.
- PEARL CHIPS** for Lily Bowls.....**15c** per lb.
- PEBBLES**, for filling Lily Bowls.....**10c** per quart.
- MICA GRIT**, for filling Lily Bowls.....**15c** per quart.

IMPORTED GRANULATED PEAT MOSS

OR

Prepared Bulb Fibre

Growing bulbs, such as Dutch Hyacinths, Tulips and Narcissus in special prepared fibre has proven a great success.

Granulated Peat Moss is native Bulb Fibre, now being used for home bulb forcing. Hyacinths, Tulips, Lily of the

Valley, Narcissus, Crocus, Snow Drops, etc., bloom luxuriously therein. Use bowls without any drainage holes at the bottom. Moisten the Granulated Peat Moss allowing surplus water to drain off and fill the bowl or dish 2-3 full. Arrange the bulbs and water occasionally, just enough to keep the Moss damp.

Ferns, Palms and other potted foliage plants that are placed in jardinières or window boxes, will keep wonderfully well, if the space between the pots is filled in with moistened Granulated Peat Moss to the height of the shoulder of the plant pots. Flower pots are porous and the capillary attraction of the roots draws the moisture from the moss through the pots; furthermore the air is allowed free access and is always somewhat damp—a natural condition for most pot plants.

This Granulated Peat Moss or Mull is especially selected for horticultural purposes. It is finely granulated, of little weight, and is entirely free from foreign matter. It is packed in compressed bales, burlaped on all sides, stiked and wire strapped. When loosened the contents will cover 240 sq. ft. 1 inch deep. It is not sold by weight, because the weight of the bale is dependent on its moisture content, which varies according to atmospheric conditions.

A few of the many purposes for which it is used: Fertilizer Carrier, Mulching, Cold Frames, Lawns, Improving Soils, Propagating, Cuttings, Landscape Work, Benches (Greenhouse), Golf Courses, Packing, Storing Bulbs, Potting, Layering, Seed Beds, etc. Send for booklet giving detailed information.

Prices: 60c per half-bushel; \$1.00 per bushel; large bale (13 cu. ft. and covers 240 sq. ft. one inch deep) . . . \$4.50

McCullough's Selected Flower Seeds

For Fall and Winter Sowing

On the following pages we give a list of the **Best Hardy Perennials** which are now so deservedly popular. Sown this fall in a cold frame or protected corner of the garden, you can have, with little trouble, an abundant supply of Columbines, Canterbury Bells, Delphiniums, Foxgloves, Gaillardias, Hollyhocks, Forget-me-nots, Daisies, Sweet Williams, etc., the following season. The list also includes a choice selection of other Flower Seeds for autumn sowing, such as Cyclamens, Pansies, Primulas, etc.

- 1—**ABUTILON**. (Chinese Bell Flower.) Finest mixture. Half hardy perennial.....**10c** pkt.
- 7—**ALYSSUM**, Little Gem or Carpet of Snow. Dwarf compact habit; pure white flowers. $\frac{1}{4}$ oz., **20c**; oz., **50c**; **10c** pkt.
- 9—**ALYSSUM**, Sweet. Of trailing habit; flowers white. Hardy annual..... $\frac{1}{4}$ oz., **15c**; oz., **30c**; **10c** pkt.

ANTIRRHINUM (Snapdragon) Half-hardy Perennial

TALL, GIANT FLOWERING

Flowers nearly double the size of the older sorts

- 14—**Apple Blossom**. Rosy pink, with white tube.....**10c** pkt.
- 15—**Defiance**. Fiery scarlet.....**10c** pkt.
- 16—**Diamond**. Carmine scarlet, lilac tube.....**10c** pkt.
- 17—**Old Gold**. Deep golden yellow.....**10c** pkt.
- 18—**Snowflake**. Pure white with yellow tube.....**10c** pkt.
- 19—**The Rose**. Rose pink.....**10c** pkt.
- 20—**Special Collection**. One packet each of the above 6 varieties.....**50c**.
- 21—**Tall Giant Mixed**. A splendid mixture, containing all the colors, magnificent, large individual flowers. $\frac{1}{4}$ oz., **30c**; oz., **\$1.00**; **10c** pkt.

SEMI-DWARF GIANT FLOWERING

Are particularly good for bedding, as they require no staking. The flowers are most wonderful, in many new shades and tints.

- 22—**Empress**. Rich velvety crimson.....**10c** pkt.
- 23—**Gloria**. Rich deep rose pink.....**10c** pkt.
- 24—**Golden Queen**. Pure yellow.....**10c** pkt.
- 25—**Grenadier**. Orange scarlet, white tube.....**10c** pkt.
- 26—**Purity**. Pure white.....**10c** pkt.
- 27—**Silver Pink**. Pearly pink, self colored.....**10c** pkt.
- 28—**Special Collection**. One packet each of the above 6 varieties.....**50c**.
- 29—**Half-Dwarf Mixed**. Large variety of colors; best for bedding..... $\frac{1}{4}$ oz., **20c**; **10c** pkt.

AQUILEGIA OR COLUMBINE Hardy Biennial

- 90—**Coerulea Hybrids**, "Rose Queen." Large, long-spurred flowers, shading from light pink to dark rose with white center and yellow anthers. **3** pkts., **25c**; **10c** pkt.
- 91—**McCullough's Long-Spurred Hybrids**. Blue, white, yellow, orange, scarlet and bright rose-pink in large flowers with long spurs.....**3** pkts., **25c**; **10c** pkt.
- 92—**Double**. All colors, mixed..... $\frac{1}{4}$ oz., **25c**; **10c** pkt.

- 93—**Single**. All colors, mixed. $\frac{1}{4}$ oz., **25c**; **10c** pkt.



Antirrhinum

FLOWER SEEDS—Continued

- BELLIS.** (English Daisy.) Half-hardy perennials.
- 106—Longfellow. Large, double, dark pink.....10c pkt.
 107—Snowball. Double white flowers.....10c pkt.
 108—Giant Double Mixed. Extra fine mixture..10c pkt.
 109—**CALCEOLARIA, Hybrida Grandiflora.** Large flowers of fine form, rich colors, beautifully spotted and marbled; finest strain in cultivation. Greenhouse perennial.....25c pkt.
- CAMPANULA.** (Canterbury Bells.) Hardy biennial.
 Calycanthema. (Cup and Saucer Canterbury Bells.)
- 118—Pink. Delicate rosy-pink.....10c pkt.
 119—Blue. A fine clear shade.....10c pkt.
 120—White. Pure white.....10c pkt.
 121—Finest Mixed. All colors of the Cup and Saucer type..... $\frac{1}{4}$ oz., 50c; 10c pkt.
- Medium. (Single Canterbury Bells.)
- 122—Single Mixed. All colors..... $\frac{1}{4}$ oz., 30c; 10c pkt.
 123—Double Mixed. All the double-flowering medium varieties..... $\frac{1}{4}$ oz., 40c; 10c pkt.
- CANDYTUFT.** Hardy annual.
- 125—Giant Hyacinth Flowered. Pure white flowers in a pyramid of bloom..... $\frac{1}{2}$ oz., 25c; oz., 40c; 10c pkt.
 126—Rose Cardinal. Bright carmine rose.....10c pkt.
 127—White Rocket. Pure white.....oz., 25c; 10c pkt.
 128—Dwarf Hybrids Mixed.....10c pkt.
 129—Mixed Colors.
 $\frac{1}{2}$ oz., 15c; oz., 25c; 10c pkt.
- HARDY CANDYTUFT.** (See Iberis.)
- CARNATION.** Half-hardy perennials. Indispensable both for greenhouse culture in winter and the garden in summer.
- 132—Marguerite. Is best for summer flowering. Finest mixed; excellent for cutting.
 $\frac{1}{4}$ oz., 50c; 10c pkt.
- 156—**CINERARIA, Hybrida Grandiflora.** Large flowering exhibition varieties embracing the richest and most varied showy and attractive colors. Greenhouse or tender annual.....25c pkt.
- 117—**COREOPSIS, Lanceolata Grandiflora.** Bright golden yellow flowers with broad fringed petals on long stems; excellent for cutting. Hardy perennial.
 $\frac{1}{4}$ oz., 25c; 10c pkt.
- 176—**CYCLAMEN, Giant-Flowered.** (Persicum Giganteum.) A popular pot-plant for winter and spring-flowering. Seedlings bloom in eight to ten months. Greenhouse perennial. Best strains, mixed.....25c pkt.
- DELPHINIUM.** (Hardy Perennial Larkspur.) One of the most exquisite blue-tinted flowers that we have. Very effective planted in beds, masses or borders. Plant $1\frac{1}{2}$ to 2 feet apart each way. Perennial varieties should be sown in the fall or early in the spring, transplanting to the open ground. Hardy perennial.
- 180—Giant-Flowering Hybrids. These magnificent Hybrids, produce beautiful spikes of immense flowers, single, semi-double and double. Flower spikes are from 2 to 3 feet in length. Colors are beautiful, ranging from pure white through all shades of lavender and blue.....10c pkt.
- 182—Bellamosum. Beautiful spikes of dark blue flowers.....10c pkt.
- 183—Chinese Varieties, Mixed. Contain a great variety of shades, from pure white to gentian-blue...10c pkt.
- 186—**DIANTHUS, Plumarius Semperflorens.** (Ever-blooming Hardy Garden Pink.) Very beautiful, sweet-scented, double, semi-double and single flowers in great diversity of colors.....10c pkt.



- DIANTHUS BARBATUS.** (See Sweet William.)
- 191—**DIGITALIS.** (Foxglove.) Hardy biennial. A splendid strain; 3 to 5 feet.
 Finest Mixed.....10c pkt.
- 210—**GAILLARDIA, Grandiflora.** (Blanket Flower.) The flowers are of enormous size and the colors the most varied; in flower for about three months. Hardy perennial. 2 feet.....10c pkt.
- 225—**HIBISCUS.** (Marshmallow.) Mallow Marvels. Immense flowers from 8 to 10 inches in diameter, in the following colors; fiery-crimson, blood-red, shell-pink and white. Hardy perennial.....10c pkt.
- HOLLYHOCK.** For planting among shrubbery or forming a background for other flowers, it is without an equal. Hardy perennial.
- 226—Chater's Double Pink.....10c pkt.
 227—Chater's Double Rose.....10c pkt.
 228—Chater's Double Scarlet.....10c pkt.
 229—Chater's Double White.....10c pkt.
 230—Chater's Double Yellow.....10c pkt.
 231—Chater's Prize, Double Mixed. Unrivalled in richness and delicacy of coloring...3 pkts., 25c; 10c pkt.
 232—Mammoth Fringed Allegheny. Mammoth flowers; the colors range from the palest shrimp-pink to deep red. 6 to 7 feet. 3 pkts., 25c; 10c pkt.
 233—Single. Finest Mixed; all colors10c pkt.
- IBERIS.** (Hardy Candytuft.)
- 238—Sempervirens. A white-blooming plant, coming in flower early in the spring; much used for cemeteries, rockeries, etc.; 1 foot. Hardy perennial.....10c pkt.
- LATHYRUS.** (Everlasting, or Hardy Pea.) Free-flowering climbers; continually in bloom; fine for cutting. Hardy perennial.
- 246—Latifolius "White Pearl." The finest white.....10c pkt.
 247—Pink Beauty. Rosy pink. 10c pkt.
 248—Mixed. All colors. $\frac{1}{4}$ oz., 15c; oz., 40c; 10c pkt.
- MIGNONETTE.** (Reseda.) Half-hardy annual.
- 263—Defiance. Enormous spikes, with individual forets of immense size; fragrant; excellent for forcing.
 $\frac{1}{4}$ oz., 20c; 10c pkt.
- 264—Machet. Dwarf pyramidal growth, large spikes; fragrant; one of the best for forcing,
 $\frac{1}{2}$ oz., 15c; 10c pkt.
- 265—Sweet-scented. The old variety but very sweetly scented...oz., 20c; 10c pkt.
- MYOSOTIS.** (Forget-me-not.) Half-hardy perennial.
- 271—Alpestris Victoria. Early flowering, of bushy habit, bearing large, bright azure-blue flowers.....10c pkt.
 272—Palustris Semperflorens. A dwarf Forget-me-not continuing in bloom from early spring until autumn; blue flowers.....10c pkt.
- PHLOX DECUSSATA.** Hardy perennial.
- 350—Mixed. In the greatest variety of colors. 3 feet. 10c pkt.
- POPPY.** Hardy Perennials. Iceland. (Papaver Nudicaule.) Of neat habit, with bright green, fern-like foliage, formed in tufts, bearing brilliant flowers in endless profusion on slender stalks about 12 inches high.
- 356—Finest Mixed. All colors..... $\frac{1}{4}$ oz., 25c; 10c pkt.
 354—ORIENTALE. (The large Oriental Poppy.) Large deep crimson flowers, having a conspicuous black blotch on each petal; exceedingly showy.
 $\frac{1}{4}$ oz., 25c; 10c pkt.
 355—Orientale Hybrids. Produce flowers of immense size and of many novel colors, such as salmon, pink, cherry, etc..... $\frac{1}{4}$ oz., 50c; 10c pkt.

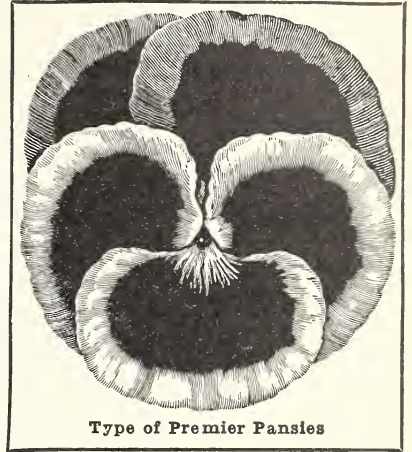
FLOWER SEEDS—Continued

Pansy

Pansy seed has always been a leading specialty with us. Seed germinates best while soil is still cool and moist. Would advise sowing in shallow drills in seed-bed early in spring when the trees are starting out in leaf, and again in September when the weather becomes cool. Plants from the spring-sown seed flower with great freedom throughout spring, summer and fall, while the stocky young plants grown in fall and winter produce the largest and finest flowers early the following spring. Take care of the weakest looking seedlings, as they usually give the finest flowers. Half-hardy Perennial.

GIANT FLOWERED PANSIES

- 308—**Blue Perfection.** The best dark blue flowers of immense size. $\frac{1}{2}$ oz., 50c; 15c pkt.
- 309—**Bridesmaid.** White shining rose, beautifully blotched. $\frac{1}{2}$ oz., 50c; 15c pkt.
- 310—**Bugnot's Superb Blotched.** A French strain of extra large size, choicest colors, with beautiful broad blotches and delicate pencillings. Finest mixed. $\frac{1}{2}$ oz., 75c; 20c pkt.
- 311—**Canary Bird.** Giant five-spotted yellow. $\frac{1}{2}$ oz., 60c; 15c pkt.
- 312—**Cassier's Giant.** A very showy strain saved from large and beautifully blotched flowers. $\frac{1}{2}$ oz., 60c; 15c pkt.
- 313—**Gold Queen.** Golden yellow, very fine. $\frac{1}{2}$ oz., 50c; 10c pkt.
- 314—**King of Blacks.** Lustrous jet black flowers of immense size. $\frac{1}{2}$ oz., 50c; 10c pkt.
- 315—**Madame Perrett.** Colors dark wine, pink and red, with edges of petals frilled and bordered white. $\frac{1}{2}$ oz., 50c; 10c pkt.
- 316—**Masterpiece.** The enormous flowers are borne well above the foliage on strong stems. The petals of the flowers are waved or curled and contain the richest colors. Each petal is distinctly marked with a large dark blotch and most of the flowers are margined with a light, white or yellow edge. $\frac{1}{2}$ oz., 60c; 15c pkt.
- 317—**Orchid Flowered.** Beautiful light shades, large frilled flowers. $\frac{1}{2}$ oz., 50c; 15c pkt.
- 318—**Snowflake.** The finest and largest pure white flowers. $\frac{1}{2}$ oz., 60c; 10c pkt.
- 319—**Triumph.** A beautiful, showy class, very large frilled flowers, in a great variety of rich colors; extra fine. $\frac{1}{2}$ oz., 75c; 20c pkt.
- 320—**McCullough's "Premier."** The cream of American and European Specialists. In this magnificent mixture of mammoth-flowering Pansies the blossoms are borne on long stems well above the foliage and are distinguished for their gorgeous and varied colorings and beautiful markings; of fine substance, velvety texture, perfect form, and giant size, frequently measuring 3 inches in diameter. The colorings are wonderfully rich and varied; every shade and tint of rose, canary-yellow, black, white, cream, lavender, garnet, sky-blue and orange are produced in endless variation. $\frac{1}{2}$ oz., \$1.00; $\frac{1}{4}$ oz., \$1.75; 25c pkt.
- 321—**McCullough's Special Mixture.** A superior mixture, selected from choice, large flowering strains. This strain is one of great excellence, the individual flowers being superb and include many fine shades in a number of colorings, and is intended to supply the want of a first-class mixture at a moderate price. $\frac{1}{2}$ oz., 60c; $\frac{1}{4}$ oz., \$1.00; 15c pkt.
- 322—**McCullough's Choice Mixed.** Great diversity of colors, free flowering; blossoms slightly smaller than the Giant sorts. $\frac{1}{2}$ oz., 30c; $\frac{1}{4}$ oz., 50c; 10c pkt.
- 325—**PETUNIA. Double Grandiflora Mixed.** Choicest strains of fine colors and large flowers. Hardy annual. 25c pkt.
- 326—**Single, McCullough's Mammoth.** The finest mixture of petunias procurable. 3 pkts., 50c; 20c pkt.
- PRIMULA.** They are one of the most important winter-blooming pot plants in the home or conservatory.
- 366—**Chinensis Fimbriata.** Finest mixed. All colors. 20c pkt.
- 367—**Obconica Grandiflora.** Large flowers with finely fringed and toothed petals; a beautiful pot plant. 10c pkt.
- 368—**Obconica Gigantea.** Strong, vigorous growth with immense heads of large individual blooms. 2 pkts., 25c; 15c pkt.
- 372—**Forbesi.** (Baby Primrose.) Rosy lilac flowers; fine for pots. 3 pkts., 25c; 10c pkt.
- 373—**Malacoides.** A fine house plant, somewhat like P. Forbesi, but larger in all its parts; flowers delicate lilac. 15c pkt.



Type of Premier Pansies

- HARDY PRIMROSE.** These are among the best of the early spring-blooming plants. Half-hardy perennial.
- 369—**Primula Auricula.** Finest mixed. Extra choice; saved from a prize collection. 10c pkt.
- 370—**Primula Veris.** (Polyanthus.) Splendid colors; extra fine. 10c pkt.
- 371—**Primula Vulgaris.** True English Primrose; canary yellow, fragrant flowers. 10c pkt.
- 359—**PYRETHRUM. Single Hybrids.** Large flowers and choicest colors; saved from named varieties. Hardy perennial. Finest mixed. 10c pkt.
- 388—**SCABIOSA. Caucasica.** (Blue Bonnet.) Especially valuable for cutting, the blooms lasting a long time in water; lilac-blue; 3 feet. Hardy perennial. 10c pkt.
- 155—**SHASTA DAISY.** A grand, large-flowering Daisy of hardy, robust growth; white flowers. 3 pkts., 25c; 10c pkt.
- 392—**STOCK (Gilliflower), McCullough's Cincinnati Market.** A grand variety producing one long sturdy spike closely set with enormous double white flowers; a fine forcer. 10c pkt.
- 393—**Princess Alice.** (Cut and Come Again.) Pure white clusters of fragrant blossoms; excellent for cutting. 10c pkt.
- 396—**STOKESIA (Cornflower or Stokes' Aster) Cyanea.** A hardy perennial, producing handsome lavender-blue, cornflower-like blossoms; in full bloom from July till frost; one of the best hardy border plants. 10c pkt.
- SWEET WILLIAM (Dianthus Barbatus.)** Hardy perennial.
- 403—**Holborn Glory.** The flowers are of extraordinary size and color, all showing a clear, white eye. 10c pkt.
- 405—**McCullough's Selected Single Mixed.** A very choice assortment of all the best single-flowering varieties. 10c pkt.
- 406—**Double Mixed.** This mixture you will find of very superior quality, containing all colors and shades. 10c pkt.
- VINCA (Madagascar Periwinkle, or Old Maid.)** Ornamental, free-blooming plants. Tender annuals.
- 449—**Rosea.** Rose, dark eye. 10c pkt.
- 450—**Alba Rosea.** White, crimson eye. 10c pkt.
- 451—**Alba Pura.** Pure white. 10c pkt.
- 452—**Mixed.** $\frac{1}{2}$ oz., 25c; 10c pkt.
- VERBENA.** Half-hardy annuals.
- 453—**Gigantea Lucifer.** Flowers intense brilliant scarlet with no eye. 10c pkt.
- 454—**Gigantea Finest Mixed.** Choice mixture of colors. 10c pkt.
- 455—**Mammoth Defiance.** Brilliant scarlet, fine for bedding. 10c pkt.
- 456—**Mammoth Candidissima.** Large trusses of pure white flowers. 10c pkt.
- 457—**Mammoth Blue.** Bright blue, in various shades. 10c pkt.
- 458—**Mammoth Pink.** Bright shades of pink. 10c pkt.
- 459—**Mammoth. Finest Mixed.** A fine strain of beautiful colors and shades. $\frac{1}{2}$ oz., 25c; $\frac{1}{4}$ oz., 40c; 10c pkt.

All 10c Packets of Flower Seeds are 3 Packets for 25c; 13 Packets for \$1.00.

HARDY HERBACEOUS PERENNIAL PLANTS

The steadily increasing demand for hardy plants has induced us to make arrangements whereby all the plants we offer are tested to determine their relative merits. Consequently, the amateur or professional gardener may rest assured that all the varieties offered will produce the desired effects, when judgment in arranging and care in planting are observed.

For such of our customers who are not acquainted with the different varieties, we shall be pleased to make suitable selections of the most desirable species, that once planted, with very little care, will keep the garden gay with flowers from the time frost leaves the ground until late in autumn.

All plants are forwarded on receipt of order (weather permitting) unless instructed to the contrary, and are sent by Express, purchaser paying charges. We can forward plants by Parcel Post, and if wanted sent in this way add 5c each, or 30c per dozen. Six plants of a kind at dozen rate.

ACHILLEA (Milfoil or Yarrow)

Plants suitable for dry, sunny places. The dwarf kinds are useful for carpeting or for rockeries, the taller varieties as border plants.

Boule De Neige. (Ball of Snow.) An improved variety bearing pure white flowers of perfect form all summer. Fine for cut flowers. 40c each; 3 for 75c; \$2.50 per dozen.

Eupatorium. Flat heads of brilliant yellow flowers; finely cut foliage. Blooms all summer. 3 to 4 feet. 45c each; 3 for 90c; \$3.00 per dozen.

ACONITUM (Monkshood)

Summer and late autumn-flowering plants with bold spikes of hood-shaped flowers thriving in either sun or shade. The roots are poisonous and should not be planted where the tubers might be mistaken for vegetables.

Fischeri. A dwarf variety with pale blue flowers. 18 inches. September. 50c each; 3 for \$1.05; \$3.50 per dozen.

Napellus. (True Monkshood.) Large dark blue flowers in a raceme. July to August. 3 to 4 feet. 65c each; 3 for \$1.50; \$5.00 per dozen.

AGROSTEMMA (Rose Campion)

Erect growing plants with silvery foliage and showy flowers during June and July.

Coronaria. (Mullein Pink.) Bright rosy-crimson flowers; 2 1/2 to 3 feet. 35c each; 3 for 60c; \$2.00 per dozen.

AJUGA (Bugle)

A useful plant for the rockery and for carpeting the ground, particularly in shady positions, as under trees where grass will not grow.

Reptans Rubra. Grows 3 to 4 inches high, with large spikes of purplish-blue flowers in May. 45c each; 3 for 90c; \$3.00 per dozen.

ALYSSUM (Rock Madwort)

Very popular for beds, borders and winter flowering. Of easiest culture and very free blooming.

Argentum. Dense growth. Leaves silvery beneath flowers yellow in clustered heads. Blooms all summer. About 15 inches. 45c each; 3 for 90c; \$3.00 per dozen.

Saxatile Compactum. (Basket of Gold, Gold Tuft, Rock Madwort.) A fine plant for the rockery or border, grows 1 foot high and produces broad flat heads of yellow flowers in May. 40c each; 3 for 75c; \$2.50 per dozen.

ANCHUSA ITALICA

Dropmore Variety. Remarkable for its free and continual flowering all summer and the beautiful gentian-blue of its flowers; grows about five feet high. 45c each; 3 for 90c; \$3.00 per dozen.

ANTHEMIS (Marguerite)

Tinctoria. Handsome, finely cut foliage, and large, golden yellow flowers produced all summer. Succeeds in the poorest soil. 35c each; 3 for 60c; \$2.00 per dozen.

ARABIS (Rock Cress)

Alpina. A desirable early spring flowering plant, adapted for edging and the rock garden, but does equally well in the border, forming a dense carpet, completely covered with pure white flowers, which last a long time in bloom. 40c each; 3 for 75c; \$2.50 per dozen.

ARMERIA (Sea Pink or Thrift)

Attractive dwarf plants forming evergreen tufts of bright green foliage, from which innumerable flowers appear in dense heads, on stiff wiry stems, from 9 to 12 inches high. They flower more or less continuously from early spring until late in the fall. Very useful in the rockery.

Lauchiana Rosea. Bright rose. 3 to 6 inches. 40c each; 3 for 75c; \$2.50 per dozen.



AQUILEGIA (Columbine)

Charming hardy plants, with distinct clear-cut foliage, bearing in countless numbers through May and June exquisite clear blue, white, rose, yellow, purple and striped blossoms. They thrive well with ordinary garden culture, but do best in partially shaded nooks.

Canadensis. (American Columbine.) A bright red and yellow variety, very attractive. 40c each; 3 for 75c; \$2.50 per dozen.

Coerulea. Flowers often three inches in diameter; the outer sepals deep lilac or blue, petals white, the deep blue spur tipped green. 45c each; 3 for 90c; \$3.00 per dozen.

Chrysantha. (Golden Columbine.) Golden Yellow flowers with long spurs. 40c each; 3 for 75c; \$2.50 per dozen.

Long Spurred Hybrids. Beautiful variations from the standard type. 40c each; 3 for 75c; \$2.50 per dozen.

Mrs. Scott Elliot Hybrids. Wonderful colors with very long-spurred flowers. Best mixture grown. Our stock is from seed from this source, absolutely true strain. 45c each; 3 for 90c; \$3.00 per dozen.

Wayside Pink. A beautiful strain of nothing but clear pink colors. We do not think that they can be surpassed. 45c each; 3 for 90c; \$3.00 per dozen.

ARTEMISIA

Lactiflora. A tall-growing plant of fine foliage and heads of small white flowers in August and September, which fill the garden with fragrance. 40c each; 3 for 75c; \$2.50 per dozen.

ASCLEPIAS (Butterfly Weed)

Showy native plants about 2 1/2 feet high, blooming during July and August.

Tuberosa. Brilliant orange-colored flowers. 40c each; 3 for 75c; \$2.50 per dozen.

ASPERULA (Woodruff)

Odorata. Heads of snowy white flowers in May. Erect habit, 6 to 8 inches high. Increases rapidly and is used for carpeting shady places and for edgings. 45c each; 3 for 90c; \$3.00 per dozen.

ASPHODELUS (Kings Spear)

Luteus. Tall spikes of bright yellow lily-like flowers; very fragrant; sword-like foliage; fine for borders. 45c each; 3 for 90c; \$3.00 per dozen.

AUBRIETIA (Rock Cress or False Wall Cress.)

One of the daintiest and most delicately beautiful of all dwarf, creeping plants for carpeting beds or rockeries, forming brilliant sheets of blue, crimson or rose for many weeks. Massed on rockeries or in borders with white Arabis and yellow Alyssum, it forms a charming contrast. A gem for planting in crevices of rocks or wall, forming a cataract of color. Mixed colors. 40c each; 3 for 75c; \$2.50 per dozen.

We do not guarantee or replace Plants, Shrubs or Trees at prices quoted.

HARDY HERBACEOUS PLANTS—Continued

ASTERS

(Michaelmas Daisies or Starworts)
The hardy sorts are entirely distinct from Annual Asters, being smaller in bloom, but produced in greater quantity.

Charm. Very double violet-blue flowers. 50c each; 3 for \$1.05; \$3.50 per dozen.

Elta. Double flowers of pale lilac. 50c each; 3 for \$1.05; \$3.50 per dozen.

Erica. A beautiful clear pink; large double flowers. 50c each; 3 for \$1.05; \$3.50 per dozen.

Joan Vaughan. Large, semi-double flowers of deepest blue. 50c each; 3 for \$1.05; \$3.50 per dozen.

Lady Lloyd. A very fine, clear rose-pink. Lasts exceedingly well. 50c each; 3 for \$1.05; \$3.50 per dozen.

Novae-Angliae Roseum Superbum. Color almost red and a profuse bloomer. One of the best. 50c each; 3 for \$1.05; \$3.50 per dozen.

Perry's White. The finest white Michaelmas Daisy yet introduced; perfect in habit and remarkably free flowering. 45c each; 3 for 90c; \$3.00 per dozen.

BAPTISIA (False Indigo)

Australis. Grows about 2 feet high with dark green, deeply-cut foliage and spikes of dark blue flowers in June. 40c each; 3 for 75c; \$2.50 per dozen.

BOCCONIA (Plume Poppy)

Cordata. A splendid plant, growing sometimes six feet high, bearing panicles of creamy-white flowers in July and August; makes a grand effect as a center in a hardy bed or a border background. 40c each; 3 for 75c; \$2.50 per dozen.

BOLTONIA (False Chamomile.)

Tall growing, showy plants, with flowers resembling hardy Asters, appearing in September.

Latisquama. Pink, tinted lavender; six feet. 40c each; 3 for 75c; \$2.50 per dozen.

CALLIRHOE (Poppy Mallow)

Involucrata. A showy trailing plant with finely divided foliage and rosy-crimson flowers, with white center; blooms all summer. 45c each; 3 for 90c; \$3.00 per dozen.

CAMPANULAS (Bell Flower)

CUP AND SAUCER CANTERBURY BELLS (Campanula Calycanthema).

Large semi-double flowers, each resembling a cup and saucer.

Pink. Beautiful variety with charming pink flowers. 35c each; 3 for 60c; \$2.00 per dozen.

White. Similar to the preceding, but the flowers are white. 35c each; 3 for 60c; \$2.00 per dozen.

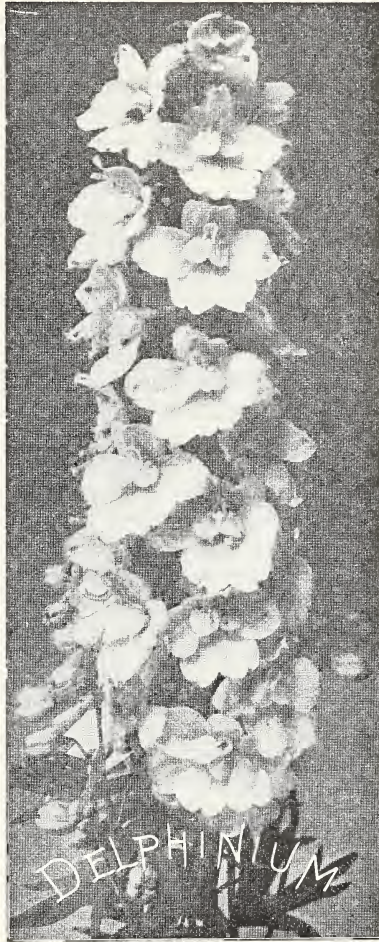
Blue. Beautiful light blue flowers. 35c each; 3 for 60c; \$2.00 per dozen.

CARNATION (Hardy Border)

Choice Mixed. Seedlings from seed supplied by a specialist. Strong plants that will furnish an abundance of flowers. 40c each; 3 for 75c; \$2.50 per dozen.

CARYOPTERIS (Blue Spirea)

Mastacanthus Incana. Grows about 3 feet high and produces rich lavender-blue flowers in great profusion the whole length of the branches. Blooms continuously from early in September until cut by frost. 65c each; 3 for \$1.50; \$5.00 per dozen.



CATANANCHE (Cupid's Dart)

Coerulea. Heads of pretty deep blue flowers on long stems. Profuse bloomer and excellent cut flower. July and August. 2 feet. 45c each; 3 for 90c; \$3.00 per dozen.

CENTAUREA (Knapweed)

Montana. Large violet blue flower, resembling the Cornflower. Blooms from July to September. 2 feet. 40c each; 3 for 75c; \$2.50 per dozen.

CERASTIUM (Snow in Summer)

Tomentosum. Suitable for the rocky or for covering dry, sunny spots. Low growing plant with silvery foliage and white flowers in June. 40c each; 3 for 75c; \$2.50 per dozen.

CHELONE (Shellflower)

Lyoni. Grows about two feet high and bears numerous spikes of large flower heads of showy purplish red flowers. 45c each; 3 for 90c; \$3.00 per dozen.

CLEMATIS, DWARF (Shrubby)

Recta. Grows from 2 to 3 feet high and produces fragrant, pure white flowers in large, showy clusters during June and July. 60c each; 3 for \$1.35; \$4.50 per dozen.

COREOPSIS

Lanceolata Grandiflora. Plant grows eighteen inches high, and produces its bright golden yellow flowers in great profusion the entire season. 35c each; 3 for 60c; \$2.00 per dozen.

DELPHINIUMS (Perennial Larkspur)

These are deservedly popular. They establish themselves in almost any garden soil, but respond quickly to liberal treatment. Will begin blooming about the middle of June. If stalks are cut off as soon as flowers fade, they will continue blooming all summer.

Belladonna Hybrids. The freest and most continuous bloomer of all. The clear turquoise-blue flowers are not surpassed by any. 3 feet. 40c each; 3 for 75c; \$2.50 per dozen.

Bellamosa. A dark blue of the type of Belladonna with the color of the old Formosum variety, but not liable to mildew like the latter and of stronger growth. 40c each; 3 for 75c; \$2.50 per dozen.

Giant Hybrids. Unquestionably the finest strain of mixed hybrids ever offered. The plants are of strong, vigorous habit, with large flowers on spikes two feet and over. 45c each; 3 for 90c; \$3.00 per dozen.

DESMODIUM (Tick Trefoil)

Penduliflorum. A graceful shrub-like plant that dies to the ground in winter, but comes up vigorously in spring. Bears during September sprays of purplish-red flowers. 65c each; 3 for \$1.50; \$5.00 per dozen.

DIANTHUS (Hardy Pink).

Allwoodi. New perpetual hardy flowering pinks. They are perfectly hardy and flower continuously from early spring until late in autumn; the flowers are much more substantial and larger than the old type of Hardy Pinks, and are borne on long stems suitable for cutting; deliciously clove scented.

MIXED—Single and double; all colors. Strong field grown plants. 50c each; 3 for \$1.05; \$3.50 per dozen.

DICTAMNUS (Gas Plant)

Fraxinella Rubra. Forms a bush about 2 1/2 feet in height, having fragrant foliage and spikes of rosy-pink flowers with deeper veins, during June and July. 65c each; 3 for \$1.50; \$5.00 per dozen.

HARDY HERBACEOUS PERENNIAL PLANTS—Continued

DIGITALIS (Foxglove)

THE strong flowerstalks—frequently four to six feet high—rising from rich and luxuriant masses of leaves, always give an appearance of strength to the hardy border.

Giant Shirley Foxgloves. Of extraordinary size and vigor, growing 5 to 6 feet tall, with flower-heads over 3 feet long, crowded with big, bell-shaped blossoms. Colors range from white and shell-pink to deepest rose; many attractively dotted with crimson or chocolate.
45c each; 3 for 90c; \$3.00 per dozen.

Gloxiniaeflora. Finely-spotted varieties. White, purple, rose or mixed. 3 to 4 feet.
40c each; 3 for 75c; \$2.50 per dozen.

ECHINOPS (Globe Thistle)

Ritro. Interesting and showy thistle-like plants with globular heads of deep metallic blue flowers, which can be dried and remain attractive for a long time.
2 to 3 feet, 45c each; 3 for 90c; \$3.00 per dozen.

EUPATORIUM (Hardy Ageratum)

A splendid native plant, growing 6 to 10 inches high; immense heads of purplish-pink flowers; fine for naturalizing along streams and ponds, and for planting among shrubbery.
Coelestinum. Lavender flowers, similar to the Ageratum, blooms from August until frost.
40c each; 3 for 75c; \$2.50 per dozen.

FEVERFEW (Matricaria)

Little Gem. A most useful border plant and valuable summer cut flower, with large double white flowers; June until October; 18 to 24 inches high.
45c each; 3 for 90c; \$3.00 per dozen.

FUNKIA (Plantain Lily)

THE Plantain Lilies are among the easiest plants to manage; their broad, massive foliage makes them attractive subjects for the border, even when not in flower. They succeed equally well in sun or shade.

Subcordata Grandiflora Alba. (White Day Lily, August Lily). Pure white, lily-shaped, fragrant flowers.
45c each; 3 for 90c; \$3.00 per dozen.

Undulata Variegata. Foliage green, striped with white.
40c each; 3 for 75c; \$2.50 per dozen.

GAILLARDIA (Blanket Flower)

Grandiflora. Beginning to flower in June, they continue one mass of bloom the entire summer. Flowers three inches in diameter; center dark reddish-brown; petals orange to crimson. (See cut.)
40c each; 3 for 75c; \$2.50 per dozen.

GEUM

Coccineum. (Mrs. Bradshaw, Chilense.) A splendid new variety, with large double flowers of a fiery red, blooming nearly all summer. 18 inches.
45c each; 3 for 90c; \$3.00 per dozen.

GERANIUM (Crane's Bill)

Ibericum. Handsome serrated foliage. Large, lilac-blue flowers, blooming all summer; compact, bushy plants. 18 inches, 45c each; 3 for 90c; \$3.00 per dozen.

Sanguineum. Attractive foliage and bright crimson flowers. 18 inches, 45c each; 3 for 90c; \$3.00 per dozen.

GYPSOPHILA (Baby's Breath)

DURING August and September the plant is a mass of delicate feathery blooms. These may be used as fresh cut flowers, also for a semi-everlasting effect.
Paniculata. Loose, feathery sprays of white flowers, making a mist-like effect; fine for bouquets.
40c each; 3 for 75c; \$2.50 per dozen.

Repens. A beautiful trailing plant for the rockery, with clouds of small, white, flowers in July and August.
40c each; 3 for 75c; \$2.50 per dozen.

GRASSES, Ornamental. (See page 21.)

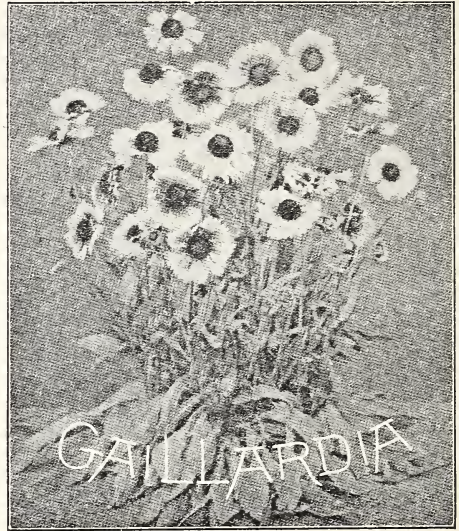
HELIANTHUS (Hardy Sunflower)

THE perennial Sunflower is very effective either in borders, among shrubbery, or as clumps on the lawn, etc.

Maximiliana. Flowers in long, graceful sprays during October, when all others have finished flowering; five to seven feet. 40c each; 3 for 75c; \$2.50 per dozen.

HELIOPSIS (Hardy Zinnia)

Pitcheriana. Very similar to a small sunflower, but blooming earlier; deep golden yellow; all summer, June till frost; 3 feet high.
40c each; 3 for 75c; \$2.50 per dozen.



HELENIUM (Sneezewort)

HANDSOME plants, allied to the sunflowers. Of the easiest culture, forming dense masses of blooms in late autumn.

Autumnale Superbum. Broad heads of deep golden-yellow flowers in late summer. Grows 5 to 6 feet high.
45c each; 3 for 90c; \$3.00 per dozen.

Autumnale Rubrum. A splendid new variety; deep ox-blood-red, changing to terra-cotta. 5 to 6 feet. September. 45c each; 3 for 90c; \$3.00 per dozen.

HEMEROCALLIS (Yellow Day Lily)

Lily-like plants, which flower in greatest profusion during the summer.

Flava. The best known variety, very fragrant, deep lemon-yellow flowers in June and July.
40c each; 3 for 75c; \$2.50 per dozen.

Dr. Regel. Handsome, rich orange-yellow flowers in May. Very fragrant. Fine for cutting, 1½ feet.
40c each; 3 for 75c; \$2.50 per dozen.

Thunbergii. Bears rich, buttercup-yellow, funnel-shaped flowers in July and August.
40c each; 3 for 75c; \$2.50 per dozen.

HESPERIS (Sweet Rocket)

Matronalis. Fragrant purple flowers in showy spikes. Desirable for wild garden, shrubbery on mixed borders 2 to 3 feet; June and July.
45c each; 3 for 90c; \$3.00 per dozen.

HEUCHERA (Alum Root)

Foliage remains close to the ground. During July and August the graceful, thin flower spikes, 12 to 18 inches appear in profusion.

Sanguinea. Bright scarlet. 50c each; 3 for \$1.05; \$3.50 per dozen.

Wayside Hybrids. Flowers range from white, clear shell pink through all shades of rose into the brightest vermilion. 45c each; 3 for 90c; \$3.00 per dozen.

HIBISCUS (Mallow)

These are a mass of bloom during the entire summer, when they produce large flowers in gorgeous colors.

Mallow Marvels, Giant-flowering. They grow from 5 to 8 feet high, and are very floriferous, blooming from early in July until late in autumn. We offer three distinct colors—red, pink and white—strong roots. 45c each; 3 for 90c; \$3.00 per dozen.

HOLLYHOCK

For planting in rows or in groups on the lawn, or for interspersing among shrubbery, they are invaluable. They require rich, deep soil, well drained.

Newport Pink. Finest pure pink, double flowering variety. 40c each; 3 for 75c; \$2.50 per dozen.

Double White, Double Rose, Double Yellow, Double Red, Double Mixed. 40c each; 3 for 75c; \$2.50 per dozen.
Single Mixed. A wide range of colors. 35c each; 3 for 60c; \$2.00 per dozen.

HARDY HERBACEOUS PERENNIAL PLANTS—Continued

HYPERICUM (St. John's Wort)

Moserianum. A desirable border plant of free and graceful habit, producing long, slender, much branched stems; leafy to the base and all drooping toward the ends, but the flowers face so that none of their beauty is lost. Flowers measure from 2 to 2½ inches in diameter, of rich golden yellow, with numerous yellow stamens and crimson anthers. Blooms the entire season. Height 2 feet.
55c each; 3 for \$1.20; \$4.00 per dozen.

INCARVILLEA (Hardy Gloxinia)

Delavayi. Large, rich gloxinia-like rose colored flowers on 15 to 18 inch stems during June and July. Succeeds either in sun or shade, but should be well protected with leaves or litter during the winter.
55c each; 3 for \$1.20; \$4.00 per dozen.

IBERIS (Hardy Candytuft)

Sempervirens. Low growing, with evergreen foliage. In spring and early summer, is completely covered with dense heads of pure white flowers. 45c each; 3 for 90c; \$3.00 per dozen.

LIBERTY IRIS (Iris Germanica)

(Flag Iris) The "Fleur-de-Lis" of France

The Liberty Iris is one of the most desirable May flowering plants. The flowers are of large size and exquisite colors. For the best results plant in a well-drained sunny position, barely covering the roots. Avoid fresh manure in preparing your border.

All the Liberty Iris roots offered by us are from plants transplanted a year ago and are of a size large enough to bloom next spring if given proper attention.

Choice New Introductions

Ambassadeur. Standards, a fascinating smoky velvety purple color; Falls, velvety purple-maroon. \$1.00 each.

Cecil Minturn. Soft Cattleya rose. A beautiful flower with broad petals, gracefully waved and crinkled; one of the finest Irises for size and extreme beauty. 50c each.

Lent. A. Williamson. Rated in 1922 by The American Iris Society as the finest Iris in the world. Standards Campanula-blue violet; Falls rich, royal purple with yellow beard. Very tall and distinct. 75c each.

Lord of June. A magnificent variety of gigantic size. Standards lavender blue; Falls rich, violet purple, \$1.50 each.

Mother of Pearl. Standards and Falls pale bluish lavender, with a faint creamy undertone. Large flowers of exceptional substance and perfect form on well branched stems. \$2.00 each.

Queen Caterina. A mid-season variety of a beautiful clear orchid purple veined with brilliant gold; the whole being further enhanced with a bright orange beard. 50c each.

Shekinah. A delightful shade of pale yellow shading to amber in the throat, with a lemon colored beard. This is a true yellow Pallida and the first of the type. A most uncommon and very handsome variety. 75c each.

GENERAL LIST OF LIBERTY IRIS.

Alcazar. This variety produces flowers of great substance, with unique coloring of great richness. Standards light bluish violet with bronze reflections; falls deep purple with bronze-veined throat; style arms deep amber with middle band of bluish-violet. Tall and vigorous grower. 30c each; \$3.00 per dozen.

Archeveque. Standards, deep purple-violet; Falls, deep velvety violet. 30c each; \$3.00 per dozen.

Brooksiana. Self-colored, delicate rose lilac, without veining. 25c each; \$2.50 per dozen.

Candelabra. Pale blue, with white spot on falls. 25c each; \$2.50 per dozen.

Caprice. Standards rosy red; Falls deep rosy red. Large and handsome. 24 inches. 25c each; \$2.50 per dozen.

Cherubim. Standards, pale lilac; Falls, pale lilac, veined with purple. 25c each; \$2.50 per dozen.

Fairy. White, delicately bordered with pale blue. Tallest white variety. 25c each; \$2.50 per dozen.



Liberty Iris

Helga. Lemon yellow, with pearl shading. 25c each; \$2.50 per dozen.

Juniata. A stately plant with mauve to manganese violet blossoms. 25c each; \$2.50 per dozen.

Jeanne D' Arc. Standards very large, ruffled, spreading after the manner of the Japanese, white, with a border delicately pencilled bright lilac; Falls white, bordered lilac at base; style arms tipped and mid-ribbed deep, bright lilac. 31 inches. 20c each; \$2.00 per dozen.

King of Iris. Standards clear lemon-yellow; Falls rich maroon, bordered yellow. Brilliant colors. Large flowers. Very fine, 24 inches. 30c each; \$3.00 per dozen.

Madame Chereau. White, elegantly frilled with a wide border of clear blue. 20c each; \$2.00 per dozen.

Monsignor. Standards violet; Falls heavily veined purple, leaving a border of the violet; late flowering. 20c each; \$2.00 per dozen.

Nibelungen. Standards, fawn and yellow; Falls, violet purple on bronze. 25c each; \$2.50 per dozen.

Oriflame. Standards, light blue; Falls, rich violet-purple. 25c each; \$2.50 per dozen.

Pallida Dalmatica. This is one of the finest Irises grown, having enormous sweet-scented flowers. Standards lavender; falls lavender, shaded blue. Unequaled for massing and fine for cutting. Height, 40 to 43 inches. 30c each; \$3.00 per dozen.

Parisiana. Standards, white, shaded lilac-purple; Falls, white, edged lilac. 25c each; \$2.50 per dozen.

Perfection. Standards, light blue; Falls, dark, velvety, violet black. 25c each; \$2.50 per dozen.

Prosper Laugier. Standards light bronze-red; Falls velvety ruby-purple, with white beard yellow tipped. Very handsome. Vigorous growth. 36 inches. 20c each; \$2.00 per dozen.

Princess Victoria Louise. Standards, sulphur-yellow; Falls, rich plum bordered cream. 25c each; \$2.50 per dozen.

Rhein Nixe. Standards white; Falls, violet-blue with white edge. 25c each; \$2.50 per dozen.

Sherwin-Wright. This variety has splendid golden-yellow flowers without shading or markings. Strong, vigorous plants about two feet high. Flowers of good texture and lavishly produced. 40c each; \$4.00 per dozen.

We do not guarantee or replace Plants, Shrubs or Trees at prices quoted.

HARDY HERBACEOUS PERENNIAL PLANTS—Continued

JAPANESE IRIS (*Iris Kaempferi*)

They are most effective when planted in groups and thrive best in a moist soil. The flowers are of immense size, from six to eight inches in diameter, and of the most beautiful and delicate shades. They are perfectly hardy, flowering in great profusion during June and July.

Plant in rich soil early as possible in the fall, firm the ground well and cover lightly with straw or other litter.

We offer the following varieties:
50c each; \$5.00 per dozen.

- Azure.** Double, mauve-blue with darker halo.
Dominator. Single. Rich indigo-blue.
Gold Bound. Double. Pure white, creamy glow.
Indo. Single. Rich dark blue, yellow center.
La Favorite. Large, white veined blue, purple center.
Minerva. Single. Pink tinted rose.
Mount Hood. Double. Light blue shaded dark blue.
Patrocle. Single. Superb dark reddish violet.
Purple and Gold. Double. Violet-blue, golden throat.
Pyramid. Double. Violet-purple veined white.
Reine Des Bulgares. Deep blue, white veins.
Shadow. Single. Reddish mahogany.
Finest Mixed (Our Selection). Our mixed varieties embrace a wide range of colors and markings. 35c each; \$3.50 per dozen.

If wanted by mail, add 5c each; 30c per dozen for postage

IRIS PUMILA

These beautiful little Irises do not grow over 4 inches high, and bloom in April and May. They are fine for bordering flower beds or planting in front of the tall Irises.

- Coerulea.** Dark violet-blue. 25c each; \$2.50 per dozen.
Excelsa. A splendid pale lemon yellow. 30c each; \$3.00 per dozen.
Schneecuppe. A large, showy, pure white. 25c each; \$2.50 per dozen.

LAVANDULA (*Lavender.*)

Vera. This is the true Sweet Lavender; grows about 18 inches high with delightfully fragrant blue flowers in July and August. Should be in every collection of Hardy Perennial Plants. 50c each; 3 for \$1.05; \$3.50 per dozen.

LIATRIS (*Blazing Star, or Gay Feather*)

Showy native plants, producing their large spikes of flowers from July to September.

Pycnostacha. Spikes of light, rosy purple flowers; five feet. 45c each; 3 for 90c; \$3.00 per dozen.

LINUM (*Flax*)

Perenne. A fine plant for the border or rockery; grows 2 feet high, with light, graceful foliage and large blue flowers all summer. 40c each; 3 for 75c; \$2.50 per dozen.

LOBELIA (*Indian Paint Brush*)

Cardinalis. (Cardinal Flower.) Rich, fiery cardinal flowers; strong plants often producing 10 to 18 spikes, 24 to 30 inches long. While they will thrive in ordinary garden soil, they prefer a moist, deep loam, where they will not suffer from drought. In bloom continuously from the middle of July till late in September. 40c each; 3 for 75c; \$2.50 per dozen.

LUPINUS (*Lupine*)

They grow about three feet high, producing large spikes of flowers, latter part of May and early June.

Polyphyllus. Clear blue. 50c each; 3 for \$1.05; \$3.50 per dozen.

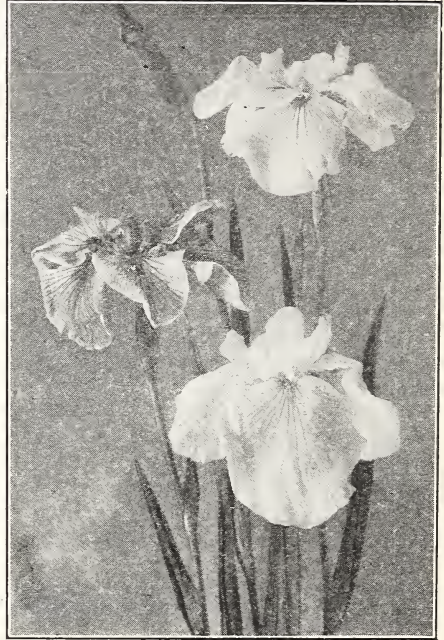
Albus. A white variety of above. 50c each; 3 for \$1.05; \$3.50 per dozen.

LYCHNIS

Chalcedonica. A desirable plant, growing two to three feet high; flowers brilliant orange scarlet. 35c each; 3 for 60c; \$2.00 per dozen.

VISCARIA SPLENDENS

Forms a deep tuft of evergreen foliage and in June sends up spikes of handsome, double, deep red, fragrant flowers. 2 feet. 40c each; 3 for 75c; \$2.50 per dozen.



Japanese Iris

LYSIMACHIA

Clethroides. (Goose-neck, Loose-strife.) Grows about 2 feet high with long, recurved spikes of pure white flowers, from July to September. 45c each; 3 for 90c; \$3.00 per dozen.

Nummularia. (Creeping Jenny or Money-wort.) Valuable for planting under trees or shrubs where grass will not grow, where it quickly forms a dense carpet. 40c each; 3 for 75c; \$2.50 per dozen.

LYTHRUM

Roseum Superbum. (Rose Loose Strife.) A strong growing plant three to four feet high, producing large spikes of rose colored flowers from July to September. 40c each; 3 for 75c; \$2.50 per dozen.

MERTENSIA (*Blue Bells*)

Virginica. An early spring-flowering plant, growing about one to one and one-half feet high, with drooping panicles of handsome, light blue flowers, fading to clear pink; blooming in May and June. 40c each; 3 for 75c; \$2.50 per dozen.

MONARDA (*Bergamot*)

Showy plants, growing from two to three feet high, succeeding in any soil or position, with aromatic foliage, and producing their bright flowers during July and August.

Didyma. Cambridge Scarlet. (Oswego Tea.) Flowers bright scarlet. 40c each; 3 for 75c; \$2.50 per dozen.

MYOSOTIS

Palustris Semperflorens. Large, rich blue flowers with yellow eye; a charming plant for damp places and a profuse bloomer. 40c each; 3 for 75c; \$2.50 per dozen.

OENOTHERA (*Evening Primrose*)

Elegant subjects for growing in an exposed, sunny position, either in the border, or on the rockery, blooming all summer.

Missouriensis. Large; golden yellow flowers. 40c each; 3 for 75c; \$2.50 per dozen.

We do not guarantee or replace Plants, Shrubs or Trees at prices quoted.

HARDY HERBACEOUS PERENNIAL PLANTS—Continued

DOUBLE HERBACEOUS PEONIES

Magnificent, hardy plants, almost rivaling the rose in perfume, brilliancy, color and perfection of bloom. They are perfectly hardy, require little or no care, and produce larger and finer blooms when well established.

This season we offer a superb assortment of double flowering Peonies. These will be furnished in divisions of 3 to 5 eyes.

Peonies should be planted in the fall for best results. If planted during the months of September, October and early November, they are almost certain to bloom the following season.

Albert Crousse. Very large convex bloom, perfect in outline. The petals are imbricated and overlap each other. Color is rosy-white flecked crimson, tall, erect habit. Bomb type, late. 75c each; \$7.50 per dozen.

Couronne D'Or. Semi-rose type, late midseason. This is the variety known as the crown of Gold. Large, full, imbricated ball-shaped bloom. 60c each; \$6.00 per dozen.

Duchess de Nemours. Guard petals white, center lemon yellow; cup-shaped. Strong grower, fragrant and free bloomer. Early midseason. 50c each; \$5.00 per dozen.

Edulis Superba. The famous Memorial Day Peony as it can usually be depended on to be in flower at that time in this latitude. Color is a bright clear mauve-pink with silvery reflex, large fragrant flowers. Crown type very early. 50c each; \$5.00 per dozen.

Felix Crousse. Large, full, brilliant red flowers of globular form, bomb type and fragrant. Strong vigorous grower of medium height and free bloomer in clusters. Late mid-season. 75c each; \$7.50 per dozen.

Festiva Maxima. Flowers very large, globular and of rose type. Petals very broad. Pure white center usually flecked crimson; outer petals sometimes pale lilac-white on first opening. Early and most popular white for cut flowers. 50c each; \$5.00 per dozen.

La Noblesse. Identical with Edulis Superba in earliness and color, which is a clear mauve-pink with silvery reflex. 40c each; \$4.00 per dozen.

Livingstone. Very full imbricated bloom; both buds and flowers are large and beautiful. Color pale, lilac-rose with sheen of silver; very free sure bloomer in clusters; upright, erect grower. Rose type, late. 85c each; \$8.50 per dozen.

Monsieur Jules Elie. Bomb type; early midseason. This is one of the very finest Peonies. Flowers unusually large and in color an ideal glossy lilac rose with silvery reflex. \$1.00 each; \$10.00 per dozen.

Princess May. Guards lilac-rose, collar creamy white, crown seashell-pink, center flecked crimson. Mid-season, 40c each; \$4.00 per dozen.

Rubra Superba. Rose type; very late. Large, rich brilliant deep crimson flowers without stamens. The best late variety and should be in every collection. 75c each; \$7.50 per dozen.

Sunbeam. An early radiant shell-pink flower of fine form. Has been grown for years as a dependable cut flower variety for Florist's use. Supply limited. 50c each; \$5.00 per dozen.

Unnamed Varieties. Colors, red, pink and white. 35c each; \$3.50 per dozen.

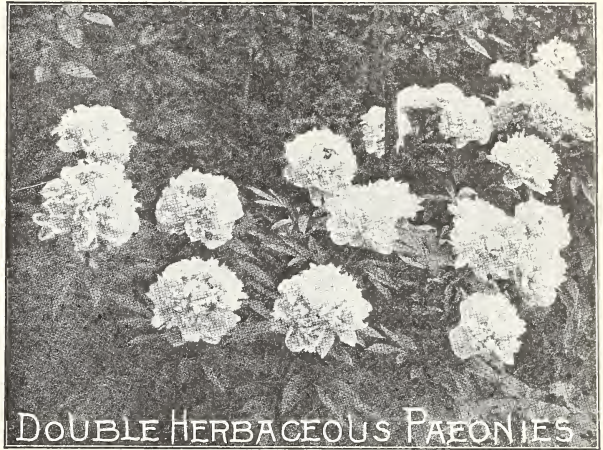
If wanted by mail, add 5c each; 30c per dozen, for postage.

PEONY (*Officinalis Rubra*)

This is the oldest and still one of the most popular sorts. It is the earliest to bloom. Producing freely, brilliant glowing deep carmine double flowers. 50c each; \$5.00 per dozen.

PACHYSANDRA (*Japanese Spurge*)

Terminalis. A ground cover, which will grow in all shady situations and the only plant which will thrive under pine trees. Of trailing habit, growing 6 to 8 inches high, forming broad mats of bright, glassy green foliage and small spikes of flowers during May and June. 40c each; 3 for 75c; \$2.50 per dozen.



PENTSTEMON (*Beard Tongue*)

Barbatus Torreyi. Spikes of brilliant scarlet flowers from June to August. Grows 3 to 4 feet high. 40c each; 3 for 75c; \$2.50 per dozen.

HARDY PHLOX (*Phlox Decussata*)

Perennial Phloxes succeed in almost any soil enriched with manure in spring, and in hot weather an occasional soaking of water. If the first spikes of bloom are removed as soon as over, they will produce a second supply of flowers, continuing the display until late in Autumn. These later blooms are often finer than the first. (We offer nothing but strong, 2-year-old plants).

We offer the following collection of extra choice varieties. 40c each; 3 of a kind for 75c; \$2.50 per dozen.

- Athis.** Deep, clear salmon. Very fine.
 - Beacon.** Brilliant cherry-red.
 - Champs Elysee.** Fine, rich crimson.
 - Europa.** A new variety, white with large crimson-carmine eye. Very large flower and truss.
 - Gaïon.** Tender peach-blossom pink with bright rose eye, creating a soft mauve effect. Flower and truss very large on erect, compact stems.
 - Jules Sandeau.** Large, fine, very free flowering, pure pink.
 - La Vague.** An improvement over older varieties of similar color, with immense, conical heads, borne in great profusion. Warm mauve with emphatic carmine eye.
 - Mrs. Jenkins.** White; immense panicles; free bloomer.
 - Rheinlander.** A beautiful salmon pink, with flowers and trusses of immense size.
 - Rijnstroom.** Lively rose-pink, much like Paul Neyron rose. Immense trusses of flowers.
 - Thor.** A beautiful lively shade of deep salmon-pink, suffused and overlaid with a scarlet glow; has aniline-red eye.
 - White Lady.** Very fine late pure white.
- Any of the above varieties. 40c each; 3 of a kind for 75c; \$2.50 per dozen.
If wanted by mail, add 5c each; 30c per dozen; for postage.

PHLOXES OF SORTS

- Divaricata Canadensis.** It commences to bloom early in April and continues through May, with large, fragrant lavender flowers, on stems 10 inches high. 45c each; 3 for 90c; \$3.00 per dozen.
- Subulata.** (Moss or Mountain Pink.) An early spring flowering type, with pretty moss-like evergreen foliage, which, during the flowering season, is hidden under the masses of bloom.
- Alba.** Pure white. **Rosea.** Bright rose. 40c each; 3 for 75c; \$2.50 per dozen.
- Suffruticosa.** **Miss Lingard.** The best Phlox in cultivation. It produces immense heads of beautiful white flowers in June and blooms again in September and October. Splendid foliage and habit, and free from attacks of red spider. Better results will be had if old flowers are cut off. 50c each; 3 for \$1.05; \$3.50 per doz.

HARDY HERBACEOUS PERENNIAL PLANTS—Continued

PHYSOSTEGIA (False Dragonhead)

Virginica. Forms large clumps 3 to 4 feet high, bearing long spikes of delicate pink flowers, tubular in form. July and August. 40c each; 3 for 75c; \$2.50 per dozen.

PHYSALIS (Chinese Lantern Plant)

Franchetii. An ornamental variety of the Winter Cherry, forming dense bushes about 2 feet high, producing freely its bright orange-scarlet lantern-like fruit which, when cut, will last all winter. Very attractive plant. 35c each; 3 for 60c; \$2.00 per dozen.

PLATYCODON

(Balloon Flower or Japanese Bell Flower)

Grandiflorum. Deep blue, cupped, star-shaped flowers, one and one-half feet. 40c each; 3 for 75c; \$2.50 per dozen.

Mariesi. Deep blue, bell-shaped flowers, nearly three inches across on one-foot-high plants. 40c each; 3 for 75c; \$2.50 per dozen.

PLUMBAGO (Lead Wort)

Larpentae. One of the most desirable border and rock plants. It is of dwarf, spreading habit, growing 6 to 8 inches high; covered with deep blue flowers during the summer and fall. 40c each; 3 for 75c; \$2.50 per dozen.

POLEMONIUM (Jacob's Ladder)

Reptans. (Greek Valerian.) Dwarf, bushy plant of graceful growth with showy blue flowers from April to June. A fine rock garden and border plant growing 8 to 10 inches high. 45c each; 3 for 90c; \$3.00 per dozen.

POPPIES, ORIENTAL (Papaver Orientale)

The proper planting season for Oriental Poppies is from the latter part of August till the end of October. Roots planted in spring seldom live and are usually disappointing to customers.

Oriental Poppies are the regal representatives of this popular genus, growing 3 to 3½ feet high, and far surpassing in splendor of bloom all the annual and biennial kinds, and for a gorgeous display of rich and brilliant coloring nothing equals them during their period of flowering in May and June, and whether planted singly or in masses their large flowers and freedom of bloom render them conspicuous in any position. They are of the easiest culture; almost any kind of soil suits them, but they do best in deep, rich loam. Set the plants out in the fall, give them water occasionally during dry spells in the early part of the following season. Mulch with stable litter in the Fall; and they will increase in size and floriferousness for several years. We offer the best of the latest introductions, as well as the distinct standard varieties.

Orientele. (Oriental Poppy.) Tremendous scarlet, cup-shaped blooms of brightest crimson-scarlet, with large purplish black blotches at base of petals, creating a wonderful contrast when bloom is fully open. Clumps of these throughout the border add a brilliancy that no other flower can provide. 50c each; 3 for \$1.05; \$3.50 per dozen.

Orientele, *Apricot Queen*. Large apricot. 50c each; 3 for \$1.05; \$3.50 per dozen.

Orientele, *Beauty of Livermore*. Crimson, with black blotch; fine flowers. 55c each; 3 for \$1.20; \$3.75 per dozen.

Orientele, *Mrs. Perry*. Orange-apricot; very fine. 50c each; 3 for \$1.05; \$3.50 per dozen.

Orientele, *Perry's White*. (New.) The most distinct break in Oriental Poppies that has yet been made; the flowers are a fine satiny white with a crimson-maroon blotch at the base of each petal. 60c each; 3 for \$1.35; \$4.50 per dozen.

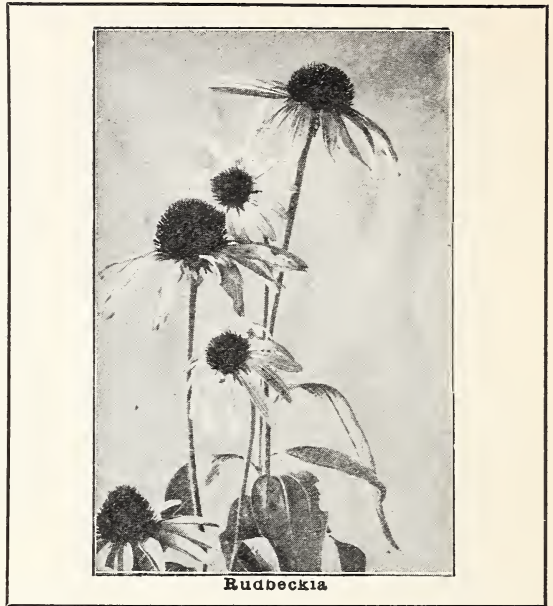
PRIMULA (Hardy Primrose)

Vulgaris. The old English Primrose with pale yellow flowers. Should be in every garden. Blooms in early spring. 60c each; 3 for \$1.35; \$4.50 per dozen.

PYRETHRUM (Persian or Painted Daisy)

Hybridum. Of easy cultivation in any garden, as they are perfectly hardy. Nothing can surpass them in profusion of flowers from May to July and again later in the season if the flower stems are removed as soon as finished. The plants we offer embrace all the colors from deep red through the various shades of rose to pure white. These can be supplied in mixed colors only. 40c each; 3 for 75c; \$2.50 per dozen.

Uliginosum. (Giant Daisy.) Grows four to five feet high, and is covered with large, white, daisy-like flowers three inches in diameter from July to September. 40c each; 3 for 75c; \$2.50 per dozen.



RANUNCULUS (Buttercup)

Repens, Fl. Pl. A pretty double flowering bright golden yellow Buttercup; flowers in May and June. 45c each; 3 for 90c; \$3.00 per dozen.

RUDBECKIA (Cone Flower)

A VARIETY of these will furnish a supply of cut flowers from early July until September. They are extremely hardy, doing well with every one. They could be termed "a city garden perennial," doing so well with little attention.

Golden Glow. Double canary yellow flowers; six feet; August. 35c each; 3 for 60c; \$2.00 per dozen.

Newmanni. Single dark orange, with deep purple cone center; three feet high; flowers from July to September. 40c each; 3 for 75c; \$2.50 per dozen.

Purpurea. (Giant Purple Cone Flower.) The flowers remain in perfect condition on the plants for weeks at a time. In fact, we do not know of any other perennial where the flowers last so long in perfect condition. Flowers from July to September; two and one-half feet high. 45c each; 3 for 90c; \$3.00 per dozen.

SALVIA

Azurea. Grows two to three feet high and produces pretty skyblue flowers in great profusion during August and September. 40c each; 3 for 75c; \$2.50 per dozen.

SAPONARIA (Soapwort)

Ocymoides Splends. A fine plant for the rockery or border, producing masses of attractive bright rose flowers. May to August. 8 inches. 40c each; 3 for 75c; \$2.50 per dozen.

SAXIFRAGA (Megasea)

These will thrive in any kind of soil and in any position. Grow about 1 foot high and are admirable for the border or for shrubbery, forming masses of handsome broad, deep green foliage; flowers appear very early in spring. Fine among rocks or ledges.

Cordifolia. Light pink. Grassifolia, rosy pink. 55c each; 3 for \$1.20; \$4.00 per dozen.

SCABIOSA

Japonica. Bears lavender-blue flowers on long stems from July to Sept. 45c each; 3 for 90c; \$3.00 per dozen.

SEDUM (Stone Crop)

Spectabilis. Erect growing; height 18 inches with broad, light-green foliage and immense heads of handsome, showy, rose-colored flowers. 45c each; 3 for 90c; \$3.00 per dozen.

Spectabilis Brilliant. Similar to the above with bright, amaranth-red flowers. 45c each; 3 for 90c; \$3.00 per dozen.

HARDY HERBACEOUS PERENNIAL PLANTS—Continued

SCUTTELLARIA (Skull Cap)

Baicalensis Coelestina. Short, wiry stems, clothed with clear blue Snapdragon-shaped flowers. 1 foot. June to August. 50c each; 3 for \$1.35; \$3.50 per dozen.

SHASTA DAISY

Large, snowy-white flowers, in bloom continuously throughout the summer and fall. Height 2½ feet. **Alaska.** A decided improvement on the original, very free-flowering, with blooms 4½ to 5 inches across of pure, glistening white, 40c each; 3 for 75c; \$2.50 per dozen. **Mrs. C. Lothian Bell.** This magnificent white Marguerite is undoubtedly the largest flowered variety of this class. Flowers frequently measure six inches across with very broad petals of great substance. 2½ to 3 feet. 45c each; 3 for 90c; \$3.00 per dozen.

SIDALCEA

RECT-GROWING, more or less branching plants, producing their showy flowers during June and July. They will succeed in any garden soil in a sunny position. **Rosy Gem.** Pretty, bright rose-colored flowers, 2 to 3 feet. 40c each; 3 for 75c; \$2.50 per dozen.

SILENE (Catchfly)

Alpestris. A dwarf rock plant, with dainty, pure white flowers in May and June. 40c each; 3 for 75c; \$2.50 per dozen.

SPIREA (Astilbe)

Hybrid varieties of vigorous growth, producing many-branched, feathery heads of flowers in June and July. They prefer a half-shady moist position in good garden soil. We offer 3 year-old, large, field-grown clumps only for immediate effect. **America.** Deep pink; excellent forcing variety. **Gladstone.** Grows 18 inches high and blooms in June and July. Immense trusses of flowers. White as snow. **Queen Alexandra.** Fine, clear pink. **Rubens.** Rosy red, fine for forcing. Any of the above, 70c each; \$7.00 per dozen.

SPIREA (Goat's Beard, Meadow Sweet)

ELEGANT border plants with feathery plumes of flowers and neat attractive foliage; succeed best in a half shaded location in rich, moist soil. **Filipendula.** (Drop Wort.) Numerous corymbs of white flowers on stems 15 inches high; pretty fern-like foliage. June to July. 35c each; 3 for 60c; \$2.00 per dozen. **Filipendula, fl. pl.** (Double Flowered Drop-wort.) Pretty fern-like foliage, with double white flowers on stem 15 inches high during June and July. 45c each; 3 for 90c; \$3.00 per dozen.

STATICE (Great Sea Lavender)

Latifolia. Immense heads, 2 to 3 feet across; small, blue flowers from June to September, which last for months if cut and dried. 45c each; 3 for 90c; \$3.00 per dozen.

STOKESIA (Cornflower or Stokes' Aster)

Cyanea. Produces showy, aster-like, deep blue flowers which measure from 4 to 5 inches across. 18 to 24 inches high, blooming freely from July until frost. 45c each; 3 for 90c; \$3.00 per dozen.

SWEET WILLIAM (Dianthus Barbatus)

Well known hardy plant. We offer a superb strain of mixed single and double-flowering sorts. 35c each; 3 for 60c; \$2.00 per dozen. **Newport Pink.** Salmon or watermelon-pink flowers. 40c each; 3 for 75c; \$2.50 per dozen.

THALICTRUM (Meadow Rue)

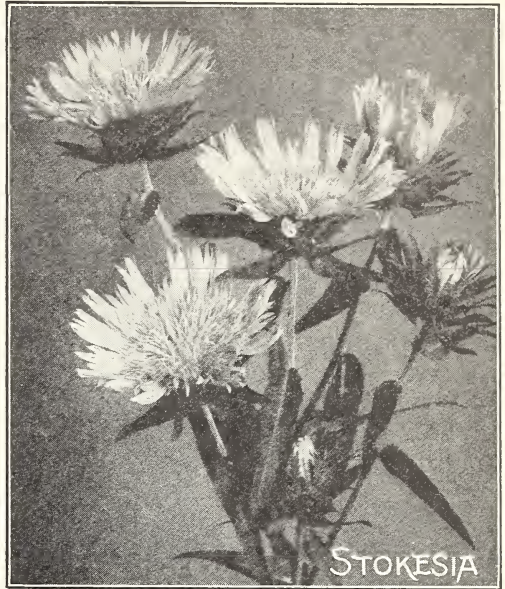
Dipterocarpum. A pretty and distinct species, with flowers of a charming shade of lilac mauve, which is brightened by a bunch of lemon-yellow stamens and anthers. The plant is of strong growth, about 4 feet high. The dainty flowers are produced in graceful sprays, during August and September. 50c each; 3 for \$1.05; \$3.50 per dozen.

TROLLIUS (Globe Flower)

Europaeus. Orange Globe. Desirable free-flowering plants producing their giant bright yellow, buttercup-like blossoms on stems 1 to 2 feet high from May until August; succeed admirably in the border in a half shady position in well-drained soil. 50c each; \$5.50 per dozen.

TUNICA (Coat Flower)

Saxifraga. A pretty tufted plant with light pink flowers, produced all summer. Useful either for the rockery or border. 40c each; 3 for 75c; \$2.50 per dozen.



VALERIANA (Valerian)

Officinalis. (Hardy Garden Heliotrope.) Produced showy heads of rose-tinted white flowers during June and July with delicious, strong heliotrope odor. 50c each; 3 for \$1.05; \$3.50 per dozen.

VERBASCUM (Mullein)

Olympicum. (Greek Mullein.) The foliage is silvery white with leaves often 3 feet long. The flowers are yellow and are produced in quantity for about three weeks in mid-summer. Succeeds best in a dry situation. 3 to 4 feet. 50c each; 3 for \$1.05; \$3.50 per dozen.

VERONICA (Speedwell)

Longifolia Subsessilis. A pretty species with blue flowers, produced on spikes a foot long, continuing in bloom the entire summer and fall. 45c each; 3 for 90c; \$3.00 per doz. **Spicata.** An elegant border plant, growing about 1½ feet high, producing long spikes of bright blue flowers. 40c each; 3 for 75c; \$2.50 per dozen.

VINCA MINOR (Periwinkle or Trailing Myrtle)

Dwarf evergreen trailing plant, is used for carpeting the ground where it is too shady for other plants to thrive. 40c each; 3 for 75c; \$2.50 per dozen.

VIOLA CORNUTA (Tufted Pansies)

These plants will remain in bloom from May to October, providing they are sheared several times during the season to prevent them going to seed. They are fine for edging the hardy border or garden.

Admiration. Light blue.
Lutea Splendens. Rich golden yellow.
Mauve Queen. Beautiful mauve color.
Perfection. Deep purplish blue.
White Perfection. A fine white.
Any of the above, 40c each; 3 for 75c; \$2.50 per dozen.

YUCCA FILAMENTOSA (Adams' Needle)

A hardy ornamental foliage and evergreen plant with long, narrow leaves that are bright green the whole year round. The flowers are white, produced on long spikes. 45c each; 3 for 90c; \$3.00 per dozen.

ORNAMENTAL GRASSES

Eulalia Gracillima. (Japan Rush.) The most beautiful of all the Eulalias, with narrow, graceful foliage, entirely green without variegation, except that the midrib is of a silver sheen.
Eulalia Japonica Variegata. Leaves striped white and green longitudinally.
Eulalia Zebrina. (Zebra Grass.) A peculiar variegated grass, growing six feet high. The variegation is unlike that of any other plant, being across the leaf in regular bands, dark green and light. 40c each; 3 of a kind for 75c; \$2.50 per dozen.

ORNAMENTAL FLOWERING SHRUBS

Shrubs are as much a part of the garden as the lawn or flower borders, and a well arranged planting presents an attractive appearance throughout the entire year.

Our Shrubs are transplanted every two or three years and are furnished with plenty of fibrous roots and should not be compared to stock that is never moved from the cutting beds until sold.

We do not guarantee or replace plants, shrubs or trees at prices quoted.

ALMOND. Double Flowering. A desirable class of early flowering shrubs, erect slender branches, covered with small double pink flowers. 2 to 3 feet. \$1.00 each; \$10.00 per dozen.

ALTHEA. (Rose of Sharon.) Valuable on account of their late season of blooming, which is from August to October. Are also extensively used as hedge plants. 2 to 3 feet. 60c each; \$6.00 per dozen.

Boule-De-Feu. Double red. 2 to 3 feet. 60c each; \$6.00 per dozen.

Jeanne D'Arc. Double white. 2 to 3 feet. 60c each; \$6.00 per dozen.

Lady Stanley. Double blush white, crimson center. 2 to 3 feet. 75c each; \$7.50 per dozen.

Double Rose, White and Purple. 2 to 3 feet. 60c each; \$6.00 per dozen.

BERBERIS THUNBERGII. (Japanese Barberry.) One of the most beautiful shrubs either for hedging or general purposes.

12 to 18 inches, 30c each; \$3.00 per dozen.

18 to 24 inches, 40c each; \$4.00 per dozen;

24 to 30 inches, 60c each; \$6.00 per dozen;

NEW RED LEAVED JAPANESE BARBERRY.

One year plants 75c each; \$7.50 per dozen.

Two year plants \$1.00 each; \$10.00 per dozen.

Three year plants \$2.00 each; \$20.00 per dozen.

BUDDLEIA. (Butterfly Shrub or Summer Lilac.) Variabilis Magnifica. Flowers are the shape and color of lilacs. Flowers all season. 50c each; \$5.00 per dozen.

CALLICARPA. Purpurea. Clusters of bright, glossy, violet-purple berries are borne in September remaining on the plant until mid-winter. 75c each; \$7.50 per dozen.

CALYCANTHUS FLORIDUS. (Sweet-Scented Shrub.) Flowers fragrant, double and of a chocolate color. Blooms in April. 1½ to 2 feet. 75c each; \$7.50 per dozen.

CERCIS CANADENSIS. (Judas Tree or Red Bud.) All the branches and twigs are covered with a mass of small pink flowers early in the spring, before the leaves appear. 2 to 3 feet. 75c each; \$7.50 per dozen.

CLETHRA ALNIFOLIA. (Sweet Pepper Bush.) Dark green foliage and upright spikes of creamy white, fragrant flowers in August. 1½ to 2 feet. 75c each; \$7.50 per dozen.

CORCHORUS. (Kerria.) Globe Flower or Japanese Rose. Japonica. Flowers bright yellow, large and showy. 1½ to 2 feet. 75c each; \$7.50 per dozen.

CORNUS FLORIDA. (White Flowering Dogwood.) Flowers white and very showy. 2 to 3 feet. \$1.00 each; \$10.00 per dozen.

CORNUS FLORIDA RUBRA. (Red Flowering Dogwood.) The flowers are rich, rosy-red. 3 to 4 feet. \$5.00 each; \$50.00 per dozen.

CORNUS MASCULA. (Cornelian Cherry.) Clusters of bright, yellow flowers early in spring which are followed by red berries. 2 to 3 feet. 75c each; \$7.50 per dozen.

CRAB. (Bechtel's Double Flowering.) Most beautiful of all the flowering Crabs; hardy. Trees are covered in early spring with large beautiful, double, fragrant flowers, resembling small roses of a delicate pink. 3 to 4 feet. \$1.50 each; \$15.00 per dozen.

DESMODIUM PENDULIFLORUM. A shrub-like plant that dies to the ground in winter, but comes up vigorously in spring. Bears during September sprays of rose-colored flowers. 1½ to 2 feet. 90c each; \$9.00 per dozen.

DEUTZIA CRENATA FLORA PLENA. Flowers double white, tinged with pink. 2 to 3 feet. 60c each; \$6.00 per dozen.

DEUTZIA GRACILIS. A dwarf bush, covered with spikes of pure white flowers in early summer. 12 to 18 inches. 75c each; \$7.50 per dozen.

DEUTZIA LEMOINEI. Habit dwarf, flowers white. One and one-half to two feet. 75c each; \$7.50 per dozen.

DEUTZIA PRIDE OF ROCHESTER. Large double white flowers, slightly tinted with rose. 2 to 3 feet. 50c each; \$5.00 per dozen.

ELDER, GOLDEN. (Sambucus.) Golden yellow foliage. 3 to 4 feet. 75c each; \$7.50 per dozen.

ELEAGNUS LONGIPES. Nearly evergreen. Yellowish flowers in May, followed by scarlet-yellow berries during summer. 2 to 3 feet. 75c each; \$7.50 per dozen.

EXOCHORDA GRANDIFLORA. (Pearl Bush.) The early buds look like pearls, opening up to long gleaming sprays of pure white. 1½ to 2 feet. \$1.25 each; \$12.50 per dozen.

FORSYTHIA SUSPensa. (Weeping Golden Bell.) Willowy growth and yellow flowers. 2 to 3 feet. 50c each; \$5.00 per dozen.

FORSYTHIA VIRIDISSIMA. (Golden Bell.) Erect growth and spreading branches; flowers bright yellow. 2 to 3 feet. 50c each; \$5.00 per dozen.

HYDRANGEA ARBORESCENS STERILIS. (Snowball Hydrangea.) Snowy white bloom; will flower for fully three months; a very showy variety, excellent for borders. (See cut.) 18 to 24 inches. 60c each; \$6.00 per dozen.

HYDRANGEA PANICULATA GRANDIFLORA. The flowers which are borne in dense pyramidal panicles in the greatest profusion, are white when they first open but gradually change to rose and remain in good condition for weeks. 18 to 24 inches. 60c each; \$6.00 per dozen. 2 to 3 feet, 75c each; \$7.50 per dozen.

HYDRANGEA PANICULATA GRANDIFLORA. Standard or Tree-Shaped

Plants. These are four and five years old, trained to tree shape with about three feet of straight stem and nice shaped heads. Four to five feet. \$2.25 each; \$22.50 per dozen.

HYPERICUM AUREUM. (Golden Hypericum.) A dwarf shrub growing to about 3 feet. Foliage bluish green above and paler beneath. Flowers yellow, nearly 2 inches across. Excellent for massing in front of taller shrubs. July and August. 1½ to 2 feet. 75c each; \$7.50 per dozen.

LILAC. Purple. (Syringa Vulgaris.) Purple flowers. **White.** (Syringa Vulgaris Alba.) White flowers. 3 to 4 feet. 75c each; \$7.50 per dozen. Prices of any of the following named Lilacs, fine plants. 2 to 3 feet. \$1.00 each; \$10.00 per dozen.

Charles X. Reddish purple flowers.

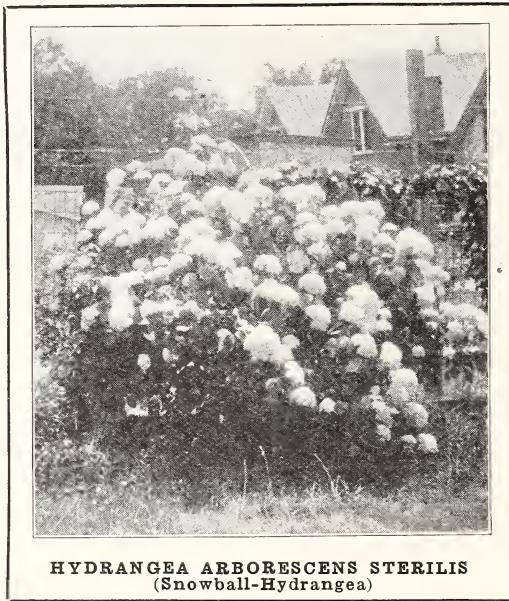
Michael Buchner. Double pale-lilac flowers.

Madame Lemoine. Double white flowers.

LONICERA. (Bush or Upright Honeysuckle.)

Morrowi. White flowers during May, followed by red fruit during the summer and autumn months. 2 to 3 feet. 60c each; \$6.00 per dozen.

Tartarica. (Tartarian Honeysuckle.) Flowers red and white. Fruit red or orange. 2 to 3 feet. 60c each; \$6.00 per dozen.



HYDRANGEA ARBORESCENS STERILIS
(Snowball-Hydrangea)

We do not guarantee or replace Plants, Shrubs or Trees at prices quoted.

ORNAMENTAL FLOWERING SHRUBS—Continued

PHILADELPHUS or **SYRINGA**. **Grandiflorus**. (Large flowered Mock-Orange.) Flowers are pure white and very large. 2 to 3 feet. 60c each; \$6.00 per dozen.

PHILADELPHUS VIRGINAL. Produces an immense mass of beautiful white flowers and blooms all summer. 1½ to 2 feet. 75c each; \$7.50 per dozen.

PRUNUS PISSARDI. (Purple Leaved Plum.) One of the best of the small red or purple leaved trees, holding much of its color through the summer. Flowers small and pinkish white. 75c each; \$7.50 per dozen.

RHODOTYPOS. **Kerrioides**. (White Kerria.) Handsome foliage and large single flowers in the latter part of May, succeeded by numerous black berries. 2 to 3 feet. \$1.00 each; \$10.00 per dozen.

RHUS COTINUS. (Purple Fringe, or Smoke Tree.) A low, shrubby tree, covered in midsummer with large clusters of feathery flowers, giving the appearance of a cloud of smoke or mist. \$1.50 each; \$15.00 per dozen.

RHUS TYPHINA. (Staghorn Sumac.) This variety will thrive in dry soil, growing to a considerable height. Leaves are dark green, turning to scarlet, purple and orange in the fall. The crimson fruits remain all winter. \$1.50 each; \$15.00 per dozen.

ROBINIA HISPIDA. (**Rose Acacia**.) A very handsome shrub. The leaves are similar to those of the Locust. In June and July long panicles of rose colored flowers hang from the branches. 2 to 3 feet. 75c each; \$7.50 per dozen.

SAMBUCUS. **Aurea**. (Golden Elder.) Attractive golden foliage and desirable to mix with other shrubs. 3 to 4 feet. 75c each; \$7.50 per dozen.

SPIREA. A large group of showy, free-flowering, hardy shrubs.

Anthony Waterer. Makes nice, round bushes, three feet; beginning to bloom in summer, continuing until fall. Rose red flowers in large, round clusters all over the bush. 12 to 18 inches. 50c each; \$5.00 per dozen.

Billardii. Pink flowers in bloom nearly all summer. It is grand for planting in masses. 2 to 3 feet. 60c each; \$6.00 per dozen.

Callosa Alba. A white flowering variety of dwarf, bushy, symmetrical form. Blooms all summer. 18 to 24 inches. 60c each; \$6.00 per dozen.

Prunifolia Fl. Pl. (Old Bridal Wreath.) Blooms in May, with pure white, double flowers. 2 to 3 feet. \$1.00 each; \$10.00 per dozen.

Reevesii Fl. Pl. Tall, with dark, bluish green foliage, and large, double, pure white flowers in May and June. 2 to 3 feet. 45c each; \$4.50 per dozen.

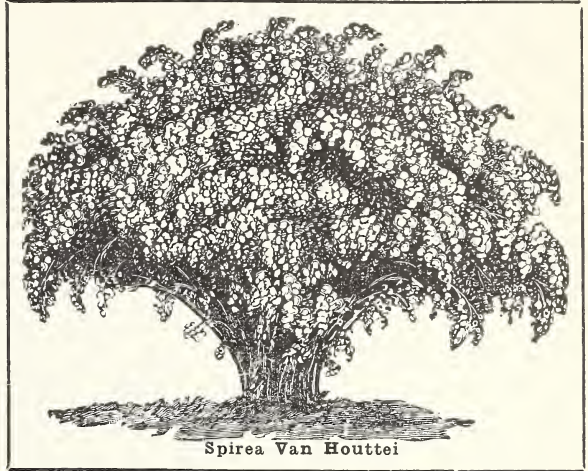
Sorbifolia. (**Ash Leaf Spirea**.) This shrub at maturity grows from 6 to 15 feet tall and its claim to recognition lies not alone in its perfect hardness, but the unique effect it offers with its delicate green foliage, Mountain Ash like in form but fern-like in texture. Appearing early in the spring, the foliage is a distinct factor in the beauty of the shrub throughout the season. 2 to 3 feet. 75c each; \$7.50 per dozen.

Thunbergii. Of dwarf, graceful form. Branches slender and somewhat drooping; foliage narrow and yellowish green; flowers small, white, appearing early in spring. 2 to 3 feet. 75c each; \$7.50 per dozen.

Van Houttei. (Improved Bridal Wreath.) This is without a doubt the most beautiful and useful of shrubs. Always effective if planted singly or in groups on lawn, in front of porch, in shrub borders or in a hedge. Handsome throughout the entire season, but when in flower it is a complete fountain of white bloom. Clusters of white florets are set close along the drooping stems. (See cut.) Two to three feet, 35c each; \$3.50 per dozen. Three to four feet, 45c each; \$4.50 per dozen.

SYMPHORICARPUS. **Racemosus**. (Snowberry.) Flowers white or pinkish, in loose racemes in summer. Berries white, produced in showy, profuse clusters, the branches bending under their weight. 2 to 3 feet. 60c each; \$6.00 per dozen.

SYMPHORICARPUS. **Vulgaris**. (Coral-Berry or Indian Currant.) A grand shrub, producing a wealth of red or purplish berries, which remain on the branches all winter. Flowers greenish red in summer. Does well in shade. 2 to 3 feet. 60c each; \$6.00 per dozen.



TAMARIX. **Africana**. (Tamarisk.) Strong, slender, tall growing, irregular shrubs, with feathery foliage and small delicate pink flowers in May. 2 to 3 feet. 60c each; \$6.00 per dozen.

TAMARIX. **Hispida Aestivalis**. A graceful shrub with upright branches, flowers pink, appearing in July and August. 2 to 3 feet. 75c each; \$7.50 per dozen.

VIBURNUM. (Snowballs and High Bush Cranberry.) The Viburnums are one of the most useful shrubs, being very hardy and of good habit. They all have white flowers mostly on flat heads and with a few exceptions are noted for their handsome clusters of berries.

Lantana. (Wayfaring Tree.) This is especially suitable for dry situations and limestone soil. The large, white flower clusters open in May and June and are followed by red fruits, changing to black. 12 to 18 inches. 45c each; \$4.50 per dozen.

Opulus. (High Bush Cranberry.) The white flowers in June are followed in autumn by bright scarlet berries, which are very attractive until late in winter. 18 to 24 inches. 75c each; \$7.50 per dozen.

Opulus Sterilis. (Guelder Rose or Snowball.) Of spreading habit, bearing flat clusters of single white flowers, which afterwards produce brilliant red berries which hang to the plant all winter; very decorative. 2 to 3 feet. \$1.00 each; \$10.00 per dozen.

Plicatum. (Japan Snowball.) One of the choicest hardy shrubs, with healthy dark foliage; the perfect balls of pure white flowers are borne in great profusion in May. 2 to 3 feet. \$1.25 each; \$12.50 per dozen.

Tomentosum. (Single Japan Snowball.) A handsome shrub with beautiful, dark green leaves. Flowers white, borne in flat clusters in May. In autumn, foliage turns to a rich crimson. 18 to 24 inches. \$1.00 each; \$10.00 per dozen.

VITEX AGNUS-CASTUS. (Chaste Tree.) A tall-growing shrub with extremely showy, dark green, aromatic foliage. Flowers lilac, borne in dense, drooping clusters. A rare shrub and very ornamental for lawn planting. July and August. 2 to 3 feet. 90c each; \$9.00 per dozen.

WEIGELIA. (Diervilla.) These shrubs bloom after the lilacs in June and July. Their large flowers are of wide trumpet-shape, colors from white to red, and borne in clusters thickly along the branches.

Candida. White flowering Weigelia, flowering throughout the summer. 2 to 3 feet. 75c each; \$7.50 per dozen.

Eva Rathke. The finest Weigelia in cultivation. Flowers continuously throughout the summer and autumn; of an entirely distinct color, being a rich, ruby carmine. Should be in every garden. 2 to 3 feet. 75c each; \$7.50 per dozen.

Rosea. A beautiful shrub, with rose-colored flowers in May and June. 2 to 3 feet. 60c each; \$6.00 per dozen.

Rosea Nana Variegata. A neat dwarf shrub, valuable for the clearly defined variegation of green, yellow and pink in its leaves; flowers delicate rose and pink; one of the finest variegated-leaved shrubs. 2 to 3 feet. 90c each; \$9.00 per dozen.

ROSES

HARDY HYBRID PERPETUAL

Strong Two-Year-Old Plants. Ready for Delivery During October and November. \$1.00 each; \$10.00 per Dozen. Sent by express at customer's expense. If wanted by mail, add 5c each, 30c per dozen, for postage.

Clio. Large, globular flowers of flesh color, shading rosy-pink at center.

Frau Karl Druschki. An exquisite flower of the purest white.

General Jacqueminot. The old favorite; velvety-crimson.

John Hopper. Brilliant crimson. large flowers, remarkable for their fragrance.

Jubilee. Flowers large, full and double; color glowing, velvety crimson; fragrant.

Mad. Gabriel Luizet. Large full and fragrant flowers; soft pink with deep flesh colored center.

Magna Charta. Deep pink, large, sweet scented and of fine form; one of the hardiest.

Marshall P. Wilder. A grand rose of large full flowers of a bright carmine-red.

Mrs. John Laing. Large, beautiful pink blooms, borne on long, sturdy stems.

Paul Neyron. An immense rose of a deep rose color.

Prince C. De Rohan. (The Black Rose.) Deep velvety-crimson passing to intense maroon.

Ulrich Brunner. Cherry-crimson, large fine form, strong grower and hardy.

HARDY CLIMBING ROSES

We Offer the Best and Most Distinct Varieties. Strong Two-Year-Old Plants Ready for Delivery During October and November.

Price—Extra Strong Plants, 75c each; \$7.50 per dozen. Sent by express at customer's expense. If wanted by mail, add 5c each; 30c per dozen for postage.

American Pillar. Color is a delightful shade of pink. Climbing American Beauty. Same as its namesake in size, color and fragrance.

Crimson Rambler. Bright crimson flowers.

Dorothy Perkins. Beautiful shell-pink flowers.

Dr. W. Van Fleet. Rich, flesh-pink flowers.

Excelsa. Crimson-scarlet; double flowers in clusters.

Gardenia. (Wichuriana.) Flowers cream color.

Pauls Scarlet Climber. Flowers scarlet, shaded crimson.

Silver Moon. Large, pure white flowers.

Tausendschon. Beautiful soft pink flowers.



Hardy Climbing Plants

AMPELOPSIS VEITCHII. (Japan Creeper or Boston Ivy.) Best climbing plant for covering brick or stone walls. 50c each; \$5.00 per dozen; by mail, 55c each.

AMPELOPSIS QUINQUEFOLIA. (Virginia Creeper.) For covering walls, verandas and trunks of trees. 50c each; \$5.00 per dozen; by mail, 55c each.

BIGNONIA RADICANS. (Trumpet Vine.) Flowers trumpet-shaped, bright scarlet. 45c each; \$4.50 per dozen; by mail, 50c each.

CLEMATIS. *Paniculata.* (Japanese Clematis.) Pure white, very fragrant, borne in large clusters; small flowering. 60c each; \$6.00 per dozen; by mail, 65c each.

HONEYSUCKLE. *Monthly Fragrant or Dutch.* Blooms all summer. 50c each; \$5.00 per dozen.

HONEYSUCKLE. *Halleana.* Nearly evergreen; flowers pure white. 50c each; \$5.00 per dozen.

IVY. *English.* Beautiful, evergreen vine. 75c each; \$7.50 per dozen; by mail, 80c each.

KUDZU VINE. (Or Jack-and-the-Bean-Stalk.) A rapid growing vine. 30c each; \$3.00 per dozen; by mail, 35c each.

HARDY CLIMBING PLANTS—Continued

WISTARIA, CHINESE. Delicate, violet-blue blossoms. 75c each; \$7.50 per dozen; by mail, 80c each.

WISTARIA, CHINESE, WHITE. Pure white flowers. 75c each; \$7.50 per dozen; by mail, 80c each.

TREES

SHADE AND ORNAMENTAL

FOR LAWN, STREET AND FOREST PLANTING

ASH. *American white.* A handsome, hardy, broad-headed tree. 8 to 10 feet. \$1.50 each; \$15.00 per dozen.

CATALPA SPECIOSA. A handsome, rapid growing tree. 8 to 10 feet. \$2.00 each; \$20.00 per dozen.

CATALPA BUNGEI. (Umbrella Catalpa.) 6 to 7 feet. 1 year heads. \$2.00 each; 2 year heads, \$3.00 each.

ELM. *American.* A hardy, rapid grower; resists drought and is long lived. 6 to 8 feet. \$1.50 each; \$15.00 per dozen.

LINDEN. *European.* This is probably the largest leaved Linden. 6 to 8 feet. \$3.00 each; \$30.00 per dozen.

MAPLE. *Norway.* A large, handsome tree with a compact-rounded head of spreading branches. 8 to 10 feet. \$4.00 each; \$40.00 per dozen.

MAPLE. *Rock or Sugar.* An excellent shade tree of upright, dense growth. Grows to a large size and is long lived. 8 to 10 feet. \$3.00 each; \$30.00 per dozen.

MAPLE. *Silver or Soft.* Has wide, slender, spreading branches and thrives almost anywhere. 8 to 10 feet. \$2.00 each; \$20.00 per dozen. 10 to 12 feet, \$2.25 each; \$22.50 per dozen.

MOUNTAIN ASH. *European.* A hardy tree; head dense and regular, beautiful fern-like foliage; covered from July till winter with clusters of bright red berries. 6 to 8 feet. \$3.00 each; \$30.00 per dozen.

OAK. *Red.* A tree of rapid growth, growing into a large, majestic tree, the foliage turning dark red in fall. 4 to 6 feet. \$2.25 each; \$22.50 per dozen.

OAK. *Scarlet.* A noble tree with spreading branches; leaves turn scarlet in fall. 6 to 8 feet. \$3.00 each; \$30.00 per dozen.

OAK. *Pin.* Tree is fibrous rooted, transplants well and grows rapidly. Foliage turns bright red in fall. 6 to 8 feet, \$2.25 each; \$22.50 per dozen.

PEACH. *Flowering, Red and White.* At its blooming time in May every twig and branch is bright with beautiful formed flowers. 3 to 4 feet. 75c each; \$7.50 per dozen.

POPLAR. *Carolina.* One of the surest and most rapid growing trees. 8 to 10 feet. \$1.50 each; \$15.00 per dozen.

POPLAR. *Lombardy.* With age this tree becomes picturesque. 8 to 10 feet. \$1.25 each; \$12.50 per dozen. 10 to 12 feet. \$1.50 each; \$15.00 per dozen.

SYCAMORE. *Plantanus Orientalis.* (Oriental Plane.) Very hardy and does well in moist places. Thrives in smoky cities, making it a good tree for city planting. 6 to 8 feet. \$1.50 each; \$15.00 per dozen.

TULIP TREE. (Liriodendron Tulipifera.) Tall, hardy tree of pyramidal habit and rapid growth. Bears flowers of a creamy-yellow and orange color in June. 6 to 8 feet. \$2.25 each; \$22.50 per dozen.

NOTE:—If planters will use our Prepared Humus in planting Shrubs, Trees, Roses, Evergreens and Hardy Perennial Plants, and mulch them with Peat Moss, much of the loss due to imperfect planting will be eliminated. (See pages 9 and 29.)

WEeping TREES

- BIRCH.** (Cut-leaf Weeping.) A tree of wonderful grace and beauty. Tall, slender, drooping branches and delicately cut leaves. It colors brilliantly in the fall. Its bare white trunk and branches make a beautiful winter picture. 5 to 6 feet. \$5.00 each; \$50.00 per doz.
- MAPLE.** Weir's Cut-Leaf Weeping. This variety of the maple has very pendulous branches and the leaves are deeply cleft. A beautiful specimen tree, with a distinct half-drooping habit. Admirably adapted for lawns. 6 to 8 feet. \$2.25 each; \$22.50 per dozen.
- MULBERRY, TEAS' WEEPING.** The most graceful hardy weeping tree in existence. Forms a perfect-shaped head and the slender branches grow downward parallel with the stem, forming an umbrella-like shape. It takes the foremost place among weeping trees; has beautiful foliage and luscious fruit, is hardy, enduring the cold of the North and the heat of the South, safe and easy to transplant. Admirably adapted for ornamenting small or large grounds, or for cemetery planting. 2 year heads, \$4.00 each.
- WILLOW.** Wisconsin. A large tree with drooping branches. Leaves are bright green. Excellent for wet locations, but a credit to any lawn. 6 to 8 feet. \$1.75 each; \$17.50 per dozen.

EVERGREEN TREES

ARBORVITAE AMERICAN (Thuya Occidentalis)

They are very quick growers and may be trimmed to any desired height. Fine for hedges.

- 2 to 3 feet. \$2.50 each; \$25.00 per dozen.
3 to 4 feet. \$4.00 each; \$40.00 per dozen.

ARBORVITAE PYRAMIDALIS

(Thuya Occidentalis Pyramidalis)

Suitable for tubs and forms a tall, slender column of densely branched, dark green foliage. A very graceful tree, having a number of uses.

- 2 to 3 feet. \$4.25 each; \$42.50 per dozen.
3 to 4 feet. \$5.25 each; \$52.50 per dozen.

ARBORVITAE GLOBE (Thuya Occidentalis Globoso)

A dense, dark green form of the arborvitae, growing naturally in globe form. Dwarf habit.

- 1 to 1 1/2 feet. \$2.25 each; \$22.50 per dozen.

IRISH JUNIPER (Juniperus Hibernica)

A narrow, columnar form, with upright branches, deep green, tips of branchlets erect.

- 2 to 3 feet. \$3.25 each; \$32.50 per dozen.

FRUIT TREES, SMALL FRUITS, GRAPE VINES, ETC.

Select thrifty young trees in preference to old or very large ones, as the roots are more tender and fibrous. They bear transplanting better and are more apt to live; they can also be more easily trimmed and shaped to any desired form and in the course of a few years will usually out-strip the older ones in growth. If not prepared to plant when your stock arrives, "heel in" by digging a trench deep enough to admit all the roots and setting the trees therein, carefully pack the earth about the roots, taking up when required. Never leave the roots exposed to the sun and air.

SENT BY EXPRESS AT EXPENSE OF PURCHASER.

APPLES—STANDARD

- 5 to 7 feet high, 90c each; \$9.00 per dozen.

SUMMER VARIETIES

- EARLY HARVEST.** Pale yellow, fine flavor; August.
RED ASTRACHAN. Large, crimson, juicy, with rich sub-acid flavor; hardy; July.
YELLOW TRANSPARENT. Pale yellow; good quality.

AUTUMN VARIETIES

- DELICIOUS.** Large, dark red, juicy, aromatic.
DUCHESS OF OLDENBURG OR DUCHESS. Large, rounded, yellow, striped red, tender, juicy.
FALL RAMBO. Yellow, streaked with red.
MAIDEN'S BLUSH. Large, beautiful blush cheek.

WINTER VARIETIES

- BALDWIN.** Large, dark red; productive.
BANANA. Large, golden yellow, shaded crimson.
ENSEE. Bright red in color and a splendid keeper.
GRIMES GOLDEN. Medium to large, skin golden yellow, flesh crisp, tender, juicy; long keeper.
JONATHAN. Medium, red and yellow, flesh tender, juicy.
NORTHERN SPY. Large, striped red; good keeper.
ROME BEAUTY. Large, yellow, shaded red, tender.

HEDGE PLANTS

California Privet. (Ligustrum Ovalifolium.) The most advantageous manner of planting is in double rows, the two rows being about 8 inches apart. The plants should be set 12 inches apart in the row, alternating the plants. In order to secure a dense hedge from the base up, the plants should be severely pruned the first two seasons.

- 18 to 24 inches. \$1.00 per dozen; \$4.50 per 100.
24 to 30 inches. \$1.20 per dozen; \$6.50 per 100.

ALTHEA. (Rose of Sharon.) Few are aware of the strikingly attractive characteristics of this perfectly hardy and profuse flowering shrub, when used as a hedge plant or as a screen. Plant 15 to 18 inches apart. 25c each; \$2.50 per dozen; \$18.00 per 100.

BERBERIS THUNBERGII. (Japan Barberry.) Where a low, dwarf deciduous hedge is wanted, nothing equals this beautiful Barberry. Requires but little pruning to keep it in shape. Plant 12 to 15 inches apart. 12 to 18 inches. \$2.50 per dozen \$20.00 per 100.

SPIREA VAN HOUTTEI. An ideal flowering shrub to use as a dividing line between properties. Plant 18 to 24 inches apart. 40c each; \$3.50 per dozen.

AUSTRIAN PINE (Pinus Austriaca)

This species is very popular for grouping or as specimens. 2 to 3 feet. \$2.50 each; \$25.00 per dozen.

SCOTCH PINE (Pinus Sylvestris)

This grows to be a large tree, 70 to 120 feet in height; quite hardy.... 3 to 4 feet. \$3.25 each; \$32.50 per dozen.

WHITE PINE (Pinus Strobus)

A valuable, ornamental, hardy pine, of rapid growth. 2 to 3 feet. \$2.25 each; \$22.50 per dozen.

DWARF MUGHO PINE (Mughus)

This pine is very valuable in habit, with dark brown branches, bright green leaves, stout and acutish. The tree is broader than it is high, forming a dark, dome-shaped bush. 12 to 18 inches. \$3.25 each; \$32.50 per dozen.

NORWAY SPRUCE (Picea Excelsa)

This tree is extensively planted in many of the States. It is of rapid growth, with graceful habits and dark green foliage. It is one of the best conifers to plant for shelter and windbreaks.

- 1 1/2 to 2 feet. \$1.75 each; \$17.50 per dozen.
2 to 3 feet. \$2.25 each; \$22.50 per dozen.
3 to 4 feet. \$3.25 each; \$32.50 per dozen.

WINTER VARIETIES (Continued)

- STAYMAN'S WINESAP.** Fruit medium size, mostly covered with red on a yellow ground; flesh fine, crisp, juicy.
WINESAP. Medium, deep red, rich, sub-acid.
YORK IMPERIAL. Medium, yellow, shaded red, firm, juicy, sub-acid; an excellent shipping apple.

ONE YEAR OLD APPLE TREES

Of the Above Varieties

- 3 to 4 feet high, 35c each; \$3.50 per dozen; 25 for \$7.00; 50 for \$13.00; 100 for \$25.00.

CRAB APPLES

- 5 to 7 feet high. 90c each; \$9.00 per dozen.

HYSLOP. Deep crimson; very popular on account of its large size, beauty and hardness.

TRANSCENDENT. Skin yellow, striped with red.

QUINCES

- 3 to 5 feet high. \$1.00 each; \$10.50 per dozen.

APPLE OR ORANGE. Large, bright golden yellow, fine quality; flesh firm, cooks tender; October.

FRUIT TREES, GRAPE VINES AND SMALL FRUITS—Continued

CHERRIES

HEART AND BIGARREAU (Sweet)

4 to 6 feet, first-class. \$1.00 each; \$10.00 per dozen.

- BLACK TARTARIAN.** Very large, purplish-black, juicy rich, excellent, productive; last of June.
GOVERNOR WOOD. Large, light red, juicy, rich, delicious; tree healthy and productive; June.
YELLOW SPANISH. Large, pale yellow with light red cheek; late June.

DUKE AND MORELLO (Sour)

4 to 6 feet, first-class. \$1.00 each; \$10.00 per dozen.

- DYEHOUSE.** A very early and sure bearer; ripens a week before Early Richmond; fine quality; June.
EARLY RICHMOND. Medium, dark red, fine quality.
ENGLISH MORELLO. Dark red, rich, acid, juicy, and good. Late July.

PEACHES

4 to 5 feet. 60c each; \$6.00 per dozen.

- CHAMPION.** Creamy white with red cheeks, freestone, excellent quality; early in August.
CRAWFORD'S EARLY. Large, yellow, of good quality, freestone; early in September.
CRAWFORD'S LATE. Large, yellow with red cheeks, freestone; last of September.
ELBERTA. Large, yellow with red cheek, flesh yellow, firm, juicy, of high quality; very prolific; September.
HEATH CLING. Large, flesh white, juicy and melting; October.
J. H. HALE. Deep golden yellow overlaid with bright carmine. Large size and productive.
OLD MIXON FREE. Large, yellow with red cheek; September.

PEARS—STANDARD

5 to 7 feet, first-class. \$1.25 each; \$12.50 per dozen.

- BARTLETT.** Large, clear yellow, juicy. August.
FLEMISH BEAUTY. Fruit is large, skin pale yellow, flavor sweet and melting; September and October.
KIEFER'S HYBRID. Large, rich color and good quality.
SECKEL. Small, yellowish brown; one of the best.

PLUMS

STANDARD ON PLUM STOCKS

5 to 7 feet. 90c each; \$9.00 per dozen.

- ABUNDANCE.** Large, yellow with heavy bloom, good quality; very prolific.
BURBANK. The largest and best variety; color red; excellent quality; hardy and vigorous grower.
RED JUNE. Large, red, fine quality; strong, vigorous grower; finest extra early plum.
SHIPPER'S PRIDE. Large, purple, fine, juicy and sweet.
YELLOW EGG. A beautiful yellow, egg-shaped plum of large size, flesh yellow; late August.

BLACKBERRIES

\$1.00 per dozen; \$6.00 per 100.

The Blackberry is one of the most profitable fruits to grow when properly managed, as it thrives well in almost any soil, but reaches perfection in a strong loam tending towards clay.

Ancient Briton. Large fruit, stems loaded with good sized berries of fine quality; vigorous grower, one of the best.

Eldorado. Large fruit, borne in large clusters and ripen well together, fine quality; good keeper.

Mersereau. Extremely hardy, berries large, extra quality, sweet, rich and melting without core; good keeper and shipper; vigorous grower.

Taylor. Medium-sized fruit of fine flavor, extremely hardy and very productive; ripens late.

CURRANTS

Two-Year-Old Plants

A cool, moist soil is best adapted to the growth of Currants. Strong, moist loams with a considerable mixture of clay, are good. Even well-drained, stiff clay will give good results.

Cherry. Large, bright red berries, with a thin skin and fine flavor. 30c each; \$3.00 per dozen.

Perfection. A new red variety which promises to eclipse all other sorts, combining size, color, high quality and productiveness. 40c each; \$4.00 per dozen.

White Grape. Best white variety. 30c each; \$3.00 per dozen.

SUITABLE DISTANCES FOR PLANTING SMALL FRUITS AND GRAPE VINES

Blackberries, 5 to 7 feet. Currants, 3 to 4 feet.
 Raspberries, black, 4 to 5 feet. Strawberries, 1 1/2 x 3 1/2 feet.

We do not guarantee or replace Plants, Shrubs or Trees at prices quoted.

DEWBERRY

Lucretia. One of the low-growing, trailing blackberries. It has proved highly satisfactory wherever tried, and many say it is the best of all the blackberry family. \$1.00 per dozen; \$6.00 per 100.

GOOSEBERRIES

Two-Year-Old Plants

The best results are obtained by planting in moist, but not soggy, clay loam, but they will do reasonably well in any well drained soil if they are well fertilized once each year.

Downing. Large, pale green, and of splendid quality for both cooking and table use. 30c each; \$3.00 per dozen.

Houghton's. Small to medium; roundish, oval, pale red, sweet, tender. 25c each; \$2.50 per dozen.

Industry. Berries of largest size, excellent flavor, pleasant and rich, dark red color when fully ripe; strong upright grower; an immense cropper. 25c each; \$2.50 per dozen.

Smith's Improved. Large, pale, greenish yellow, skin thin, of excellent quality. 25c each; \$2.50 per dozen.

GRAPE VINES

ALL TWO-YEAR-OLD SELECTED STOCK

Grape vines will grow almost anywhere, but they should be carefully cultivated and pruned.

BLACK OR PURPLE GRAPES

***Concord.** Large, black grape, hardy and productive; juicy and sweet. 15c each; \$1.50 per dozen.

Ives' Seedling. Dark purple, sweet. 20c each; \$2.00 per dozen.

Moore's Early. Ripens ten days earlier than Concord; bunch and berry round and large. 20c each; \$2.00 per dozen.

RED GRAPES

***Catawba.** Berries large, round; when ripe a dark copper color, sweet, rich. 30c each; \$3.00 per dozen.

Delaware. Small, light red, thin skin; very juicy, sweet, sprightly. 30c each; \$3.00 per dozen.

WHITE OR YELLOW GRAPES

***Niagara.** Bunch and berries large, light greenish white, slightly ambered. 20c each; \$2.00 per dozen.

Pocklington. Bunch and berry very large; attractive, golden yellow color. 25c each; \$2.50 per dozen.

Varieties marked with a * are best for arbors.

RASPBERRIES

They will do well in any good soil, but thrive best in deep, moist (not over wet) soil. The lighter loams are preferable for the red varieties, while the heavier loams suit the black varieties best.

The following varieties are all 75c per dozen, \$4.50 per 100.

Cardinal. Produces a fine quality of dark red or almost purple berries through a long season.

Cumberland. The largest black cap; a healthy, vigorous grower; very productive.

Cuthbert. Large, firm, deep rich crimson, of excellent quality, tall, strong and vigorous.

St. Regis. The berries are a bright crimson, of large size and surpassing quality—rich, sugary with full raspberry flavor.

STRAWBERRIES

Strawberries will do well in any soil that will grow good corn. Soil should be made fine and loose. A generous supply of well rotted manure incorporated in the soil is of great benefit.

EVER-BEARING STRAWBERRY

Mastodon. Has no equal as to quality, productiveness, and hardness of plants. Quality of the fruit is of the very best. Size much larger than any other fall-bearing variety. 60c per dozen; \$2.50 per 100.

The following varieties are all 50c per dozen;

\$1.25 per 100.

Aroma. One of the finest for long-distance shipping. The large berries are bright red to the center, of conical shape with prominent and attractive yellow seeds.

Gandy. One of the best late varieties. Berries large, of fine form and excellent quality.

Glen Mary. Large to very large, sometimes flattened; sweet, rich, delightful.

Senator Dunlap. Exceedingly vigorous. Fruit large, regular and attractive in form, deep red to the center; firm in substance.

Gooseberries, 3 to 4 feet. Raspberries, red, 3 to 4 feet.
 Strawberries, in beds, 1 1/2 x 1 1/2 feet. Grapes, 8 to 10 feet.

MCCULLOUGH'S GRASS SEEDS

We Specialize in Grass Seeds of All Kinds and for Every Purpose.

For many years Grass Seeds have been one of our most important specialties and our improved and perfected facilities for handling either in small or car lots, enable us to offer our customers the best possible service, both as to quality and promptness in executing orders.

The number of pounds to the bushel in brackets, is the old way of offering grasses, and is mentioned merely for reference. We constantly carry in stock the following varieties of Grass and Clover Seeds, on which we are prepared to quote prices from one pound to carlots.

KENTUCKY BLUE GRASS (*Poa Pratensis*)

Also known as June Grass, Green Grass, etc. This is regarded as the finest permanent pasture grass. Especially suited to rich lands. It is the grass of the famous and fertile limestone soils of Kentucky, and is no less a favorite all through the Northern States. A perfect lawn grass. Sow 50 to 60 lbs. per acre for lawns; and 100 to 150 lbs. per acre for fairways, 30 lbs. to the acre for pastures. (14 lbs. per bushel.)

Kentucky Blue Grass Seed, Fancy Cleaned. Per lb., 45c; 5 lbs., \$2.00; 10 lbs., \$3.75; 20 lbs., \$7.25.

Write for special prices on large quantities and other grades

NOTE—A mixture of two parts of Kentucky Blue Grass to one part of Fancy Redtop is recommended for Fairways. Sow 100 lbs. of this mixture per acre.

RED TOP GRASS (*Agrostis Palustris* or *Alba*)

Herd's Grass, Quick Grass. Perennial. Height 1 to 2 feet. Valuable either for lawn mixtures, mixing in hay, or permanent pasture grasses; succeeds almost everywhere.

FANCY RED TOP PURE SEED. Weight, about 30 lbs. per bushel. Sow 10 to 12 lbs. per acre.

CHOICE RED TOP SEED IN CHAFF. Sow, if alone, 40 to 50 lbs. per acre. (14 lbs. per bushel.)

ORCHARD GRASS (*Dactylis Glomerata*)

Rough Cocksfoot. Perennial. Height, 3 feet. It blossoms about the same time as Red Clover, making it a desirable mixture with that plant. It is exceedingly palatable to stock of all kinds, one of the very best pasture grasses. Sow 25 to 35 lbs. to the acre. (14 lbs. per bushel.)

PERENNIAL OR ENGLISH RYE GRASS (*Lolium Perenne*)

Imported English Blue Grass. Height 15 to 24 inches. Considered invaluable for permanent pastures. It produces an abundance of remarkably fine foliage, tillers out close to the ground and soon forms a compact sward. After being cut it grows up in a very short time and remains bright and green throughout the season, consequently is well adapted for lawn mixtures. Valuable for shady places. Also a good variety for hay, if cut when in blossom, as it is then most nutritious. Sow, if alone, 50 to 60 lbs. per acre (24 lbs. per bushel).

NOTE—Stocks of Rye Grass available for fall sowing are of American origin and contain a percentage of Italian Rye Grass. There is no noticeable difference in growth.

PACEY'S IMPROVED SHORT RYE GRASS

Similar to Perennial Rye Grass, but seed is heavier and smaller, consequently is superior for lawn purposes. (24 lbs. per bushel.) Sow, if alone, 50 to 60 lbs. per acre.

MEADOW FESCUE (*Festuca Pratensis*)

Erroneously called English Blue Grass. Highly valuable for permanent grass land. Does not, however, attain its full productive power until the second or third year. Sow 30 to 40 lbs. to the acre. (24 lbs. per bushel.) This is the true Evergreen Grass of the South.

AWNLESS BROME GRASS (*Bromus Inermis*)

A hardy perennial, standing extremes of heat, cold and drought. It will grow well on all kinds of soil. (10 lbs. per bushel.) Sow 25 to 30 lbs. to the acre.

BERMUDA GRASS (*Cynodon Dactylon*)

A valuable grass for the south and for tropical climates; will not endure frost. Sow 10 to 15 lbs. per acre.

CRESTED DOGSTAIL

(*Cynosurus Crystatus*)

An excellent grass for hard, dry soils; valuable for pastures and lawns, as it is very hardy. (21 lbs. per bushel.) Sow, if alone, 30 to 35 lbs. per acre. Perennial. Height, 1 to 1 1/2 feet.



SOUTH GERMAN MIXED BENT

Formerly called Creeping Bent, is a natural mixture of several fine bent grasses, including Rhode Island and Creeping Bent. The best turf grass for Putting Greens. Sow 5 lbs. to 1,000 sq. ft. Per lb., \$1.25; 5 lbs., \$5.50; 10 lbs., \$10.00.

NOTE—Pure Creeping Bent turf cannot be secured from German Bent Seed, but may be produced from the American Creeping Bent (Seaside Bent) seed, or from planting Creeping Bent Stolons.

Information and prices of Stolons on request.

RHODE ISLAND BENT

A genuine strain of high purity grown in Oregon. Chiefly used for pastures, lawns and Putting Greens. Sow 3 to 5 lbs. per 1000 sq. ft. (12 lbs. per bushel.) Per lb. \$2.50.

AMERICAN CREEPING BENT (*Seaside Bent*) (*Agrostis Maritima*)

A pure strain of Creeping Bent grown in the United States. Should produce a green equal to one planted from stolons at a fraction of the cost. Sow 3 to 5 lbs. to 1000 square feet. 1 lb., \$3.00; 3 lbs., \$8.75; 5 lbs., \$14.50.

CANADIAN BLUE GRASS (*Poa Compressa*)

Also called Flat-Stemmed Poa, Flat-Stalked Meadow Grass. Grows a foot or more high. Recommended for horses, cows and sheep. Thrives well on clay. Sow 30 to 40 lbs. per acre.

HARD FESCUE (*Festuca Duriuscula*)

Perennial. Height, 12 to 24 inches. Thrives well in dry situations. Sow, if alone, 30 to 35 lbs. per acre. (12 lbs. per bu.)

SHEEP'S FESCUE (*Festuca Ovina*)

Similar to Hard Fescue.

ITALIAN RYE GRASS (*Lolium Italicum*)

Biennial. Height, 18 to 30 inches. As it is not perennial, it is not adapted for permanent pastures, but for one or two years hay it is unsurpassed. Sow, if alone, 45 to 50 lbs. per acre. (18 lbs. per bushel.)

RED OR CHEWINGS FESCUE (*Festuca Rubra*)

A creeping-rooted species, forming a close and lasting turf and especially adapted for dry sandy soils. It resists extreme drought and thrives on poor soils; also valuable for shady places in lawns as well as for golf courses and particularly on Putting Greens. 7 lbs. for 1,000 square feet (24 lbs. per bushel).

ROUGH STALKED GRASS (*Poa Trivialis*)

No grass is better adapted for pleasure grounds, particularly under trees, as it will not only grow in such places, but forms a fine sward where few other grasses can exist. Sow 20 to 25 lbs. to the acre.

SEND FOR OUR SPECIAL PRICE LIST OF GRASS AND CLOVER SEEDS.

GRASS SEEDS—Continued

TALL MEADOW OAT GRASS

(*Avena Elatior*)

A perennial. Has broad, flat leaves, and grows about 3 feet high. Sow 25 to 30 lbs. per acre.

TIMOTHY (*Phleum Pratense*)

Herd's Grass. Cat's-tail Grass. This Grass stands at the head for meadows. Never use less than a peck to the acre, then up to one-half bushel, as to circumstances.

Market Price.

WOOD MEADOW GRASS

Used in shady places, but now displaced to a large extent by Rough Stalked Meadow Grass. Market Price.

SEND FOR OUR SPECIAL PRICE LIST OF GRASS AND CLOVER SEEDS

MCCULLOUGH'S MIXED GRASSES

FOR MEADOWS AND PASTURES

There are always certain grasses that are especially adapted to certain kinds of soils, and these are so carefully combined in our mixtures that in our **Mixture for Permanent Pastures** grasses will be found that mature at intervals during the season, thereby insuring continuous pasturage, while our **Mixture for Permanent Meadows** will furnish excellent hay as well as late pasturage.

FIRST QUALITY MIXTURES

For meadows, for permanent pasture, for pasture and hay in orchard and other shady places, for marshy grounds, for sandy and rocky grounds. Sow 20 to 30 lbs. per acre.

McCullough's High Grade Clover Seeds

ALFALFA OR LUCERNE (*Medicago Sativa*)

Alfalfa is one of the most profitable crops the dairyman or stock farmer can raise, due to the high yield of palatable hay which contains a large percentage of protein. Alfalfa is best adapted to steep limestone hillsides and gravelly river bottoms, where the water can get away from the roots. Sow in spring or fall at rate of 15 to 20 lbs. per acre. We offer American grown seed raised in the Northwest and West. It is free as possible from noxious weeds. (60 lbs. per bushel.)

GRIMM ALFALFA

This variety of Alfalfa is being raised all over the United States. It seems to be much harder than common Alfalfa, which is due to its root system, which is somewhat variable, enabling it to withstand freezing and thawing weather, droughts and other hardships which the common alfalfa will not endure.

Genuine Ontario Grimm from fields of the original Lyman Grimm strain is giving fully as good satisfaction and is lower in price than North-Western seed.

We handle both North-Western and Ontario Grimm Alfalfa. Sow in the spring or fall of year at the rate of 10 to 15 lbs. per acre. Prices on application.

CANADIAN VARIEGATED ALFALFA

This is considered by many to be fully as hardy as Grimm and is of the Grimm type.

We recommend it very highly and it can be obtained at a small advance in price over common Alfalfa.

In Ohio, Grimm or Canadian Variegated Alfalfa is the best insurance against winter killing and thinning out of stands.

Where winter killing is not a factor, common Alfalfa from Utah and sections north gives satisfaction.

ALSIKE OR SWEDISH CLOVER

(*Trifolium Hybridum*)

This variety is perennial and on account of its fibrous root system does not winter-kill. Will grow well on poor soil and do better on moist land than any other variety of Clover, and is highly esteemed as pasturage for bees.

Sow 6 to 8 pounds per acre.

CRIMSON OR SCARLET CLOVER

(*Trifolium Incarnatum*)

CRIMSON SCARLET or CARNATION CLOVER. This Clover grows about two feet high, makes good hay and is excellent for feeding green, the yield being immense. Should be sown in August to October, also early spring. 12 to 15 lbs. per acre.

WHITE OR DUTCH CLOVER

(*Trifolium Repens*)

This variety thrives on nearly all soils; is a low close-growing Clover, and on account of its earliness and hardness should be used in mixtures for permanent pastures and lawns.

SEND FOR OUR SPECIAL PRICE LIST OF GRASS AND CLOVER SEEDS.

INOCULATE ALFALFA AND OTHER CLOVERS AND VETCHES WITH NITRAGIN

NITRAGIN is an old, reliable inoculator. The contents are always fresh, living bacteria to feed your plants. Easy to use. Sent by mail or express, prepaid.

FOR Alfalfa, Clover, Vetch, Peas and Beans
 1/4 bushel size (15 lbs. of Seed).....\$0.40
 1/2 bushel size (30 lbs. of Seed)..... 0.60
 1 bushel size (60 lbs. of Seed)..... 1.00
 5 bushel size (300 lbs. of Seed)..... 4.75
 State What Crop You Want the Nitragin For.

FOR Soy Beans and Cow Peas
 1/2 bushel size (30 lbs. of Seed).....\$0.40
 1 bushel size (60 lbs. of Seed)..... 0.70
 5 bushel size (300 lbs. of Seed)..... 2.50
 In ordering, be sure to name crop to be Inoculated.



BOKHARA OR SWEET CLOVER

WHITE FLOWERED. (*Melilotus Alba.*) It will make an excellent growth on any lime lands and stiffest clays, or any soils so hard and barren that they will sustain no other vegetation.

The roots are very long, penetrating the soil to a depth of three to four feet, and being fleshy, decay more rapidly than alfalfa roots, hence their nitrogen becomes more quickly available for other crops.

WHITE FLOWERED; HULLED SEED, SCARIFIED.
 Market price.

YELLOW FLOWERED. (*Melilotus Officinalis.*) Biennial. It resembles the White Sweet Clover, but blooms about three weeks earlier, produces finer stalks and does not grow as tall. It makes first-class hay and excellent pasture. It will grow on any kind of soil, and, being deep rooted, remains green in the driest season.

YELLOW FLOWERED; HULLED SEED, SCARIFIED.
 Market price.

UNHULLED SEED of both varieties is very slow to germinate. Unhulled Seed (30 lbs. per bushel). Hulled Seed (60 lbs. per bushel).

JAPAN CLOVER (*Lespedeza Striata*)

This Clover is especially adapted for the South, because it occupies the same position in pasture mixtures for the South that White Clover does in the North. Will thrive on poor land, and, as it grows thickly, soon furnishes abundant pasturage. This Clover is a half-hardy annual, without any objectionable root system. Sow 15 to 20 lbs. per acre. (25 lbs. per bushel.) Market price.

DWARF ESSEX RAPE

In a few weeks from the time of sowing, sheep, hogs or cattle can be turned on it. When on the Rape they should at all times have access to salt. When sown broadcast, use five to six pounds, and if in drills, two to three pounds to the acre.

VETCHES OR TARES

SAND, HAIRY OR WINTER VETCH. (*Vicia Villosa.*) This is far superior to Crimson Clover, as it never winter-kills. Sow from August 1st to October 1st, broadcast, 1 to 1 1/2 bushels per acre, to which we suggest adding half a bushel of winter rye or wheat.

RED CLOVER—MEDIUM

(*Trifolium Pratense*)

Sow 10 to 12 pounds to the acre, according to quality of seed used and condition of the soil. In ordering, always state quality desired, otherwise will send the best.

McCULLOUGH'S HIGH GRADE FERTILIZERS

All Fertilizers Delivered Free on Board Cincinnati.

All Prices Subject to Change Without Notice.

ARMOUR'S LAWN AND GARDEN GROWER

This is a properly balanced concentrated plant food mixture blended from those chemical fertilizer ingredients best suited for the growing of grass and gardens. It is free from objectionable odors and weed seeds, is easily applied and gives quick results. Its plant food is largely soluble in water, yet will not readily leach from the soil in excessive rains. It contains more pounds of highest grade plant food than is generally used in lawn and garden fertilizer, having at least 16 times as much plant food as ordinary farm manure. It contains 6% Ammonia, 8% available Phosphoric Acid and 6% Potash, which analysis is of the proper ratio for such use. The continued systematic use of this fertilizer will materially aid in eradicating weeds from your lawn.

Use 4 to 6 lbs. per 100 square feet.

Send for descriptive circular.

5 lbs., 50c; 25 lbs., \$1.75; 50 lbs., \$2.75; 100 lbs., \$5.00.

ADCO ARTIFICIAL STABLE MANURE

ADCO, in 25-lb. bags, each.....\$2.00
(Enough for 12 wheelbarrow loads of garden waste, making one-half ton of manure.)

ADCO, in special 150-lb. bags, each.....\$10.50
(Enough for a heap 10 ft. x 10 ft. x 6 ft., making about three tons of manure.)

PURE BONE MEAL. Should be applied at the rate of 500 to 600 lbs. per acre. Analysis: Ammonia 2%; total phos. acid, 27%.
1 lb., 10c; 5 lbs., 40c; 10 lbs., 70c; 25 lbs., \$1.25; 50 lbs., \$2.00; per bag of 125 lbs., \$4.00.

SHEEP MANURE—Pulverized. Use at the rate of from 500 to 600 pounds per acre. For pot plants, mix one part of sheep manure to six parts of soil. For use in the vegetable garden spread over the surface and dig in.
5 lbs., 30c; 10 lbs., 50c; 25 lbs., \$1.00; 50 lbs., \$1.50; 100 lbs., \$2.50.

CATTLE MANURE—Shredded. Dried and sterilized by a high temperature direct heat process which kills weed seeds, fungus and disease germs.
100 lb. bags only. Per bag of 100 lbs., \$2.50.

CROWN PREPARED HUMUS. The prepared Humus is dry, thoroughly pulverized, odorless and clean to handle and apply and absolutely free from weed growth.
5 lbs., 25c; 10 lbs., 40c; 25 lbs., 75c; 50 lbs., \$1.25; 100 lbs., \$1.75; 500 lbs., \$8.00; 1,000 lbs., \$15.00.

PLANT STIMULANT TABLET. Complete directions with every package.
Price, postpaid; trial size (10 tablets) 15c; 30 tablets, 25c; 100 tablets, 75c; 1,000 tablets, \$3.50.

AMMO-PHOS (Ammonium Phosphate). Contains 20% of ammonia, practically all soluble and readily available, and 20% of available phosphoric acid. Apply three pounds of Ammo-Phos. to the thousand square feet monthly during the growing season of five months, or a total of fifteen pounds per one thousand square feet per annum.
1 lb., 15c; 2 lbs., 25c; 10 lbs., \$1.00; 25 lbs., \$2.00; 50 lbs., \$3.75; 100 lbs., \$7.00.

LAWN LIME. Should be applied at the rate of 1,000 to 2,000 lbs. per acre for sandy soils and 2,000 to 3,000 lbs. per acre for clay soils, a few weeks before applying Commercial Fertilizers.
Per bag of 80 lbs., \$1.00; 5 bags, \$4.50; 10 bags, \$8.00.

REGULAR BONE MIXTURE (Half and Half). Especially valuable for Field Crops, Potatoes and Grain. Should be applied at the rate of 400 to 500 lbs. per acre. Analysis: Ammonia, 2%; total phos. acid, 16%; potash K₂O, 2%.
5 lbs., 30c; 10 lbs., 50c; 25 lbs., \$1.10; 50 lbs., \$2.00; per bag of 125 lbs., \$3.25.

DRIED BLOOD MEAL. A splendid fertilizer for Roses, Carnations, Crysanthemums, etc., as well as for pot plants. Can be mixed with the soil or applied in liquid form.
1 lb., 15c; 25 lbs., \$2.00; 50 lbs., \$3.75; 100 lbs., \$7.00.

STADLER'S "SUPERIOR" PLANT FOOD. For Potted House Plants, Garden, Shrubs, Lawn and Trees.

3 oz. can (making 12 1/2 gallons).....\$0.25
7 oz. can (making 27 1/2 gallons)..... .50
16 oz. can (making 65 gallons)..... 1.00
A \$1.00 can contains 600 treatments.

Prices Postpaid

NITRATE OF SODA. Carries approximately 20% of ammonia and comes in crystals which vary in size.
1 lb., 15c; 2 lbs., 25c; 10 lbs., \$1.00; 25 lbs., \$2.00; 50 lbs., \$3.00; 100 lbs., \$5.50.

SULPHATE OF AMMONIA. Contains approximately 25% of ammonia and comes in fine crystals which are very nice to apply broadcast.
1 lb., 15c; 2 lbs., 25c; 10 lbs., \$1.00; 25 lbs., \$2.00; 50 lbs., \$3.00; 100 lbs., \$5.50.

MURIATE OF POTASH. Apply 100 to 150 lbs. per acre, usually with other fertilizers. This must be used with great care as it is very powerful. Excellent for Potatoes, Corn, Grain, etc.
1 lb., 15c; 2 lbs., 25c; 10 lbs., \$1.00; 25 lbs., \$2.00; 50 lbs., \$3.00; 100 lbs., \$5.00.

ACID PHOSPHATE 16%. Apply from 200 to 400 lbs. per acre. Analysis: Available phos. acid 16%; insoluble, 1%.
5 lbs., 30c; 10 lbs., 50c; 25 lbs., \$1.00; 50 lbs., \$1.50; per bag of 125 lbs., \$2.50.

MOSS, PEAT AND POTTING SOIL.

Moss, Green Sheet. For hanging basket, etc. Per bale-50c; large bundle (5 bales), \$2.00.

Moss, Sphagnum. For packing plants and growing orchids, etc. 1 lb., 15c; per bale, \$2.50.

Granulated Peat Moss. Per bale of 13 cubic feet \$4.50.
Potting Soil. Peck 35c; per bushel, \$1.25.

Granulated Peat Moss. Per bale, \$4.50; 5 bales, \$4.25 per bale; 10 bales, \$4.00 per bale. See page 11 for description.

Insecticides and Fungicides

★**SCALECIDE.** Mixes Instantly with Water and Stays Mixed. Add one gallon of "Scalecide" to 15 gallons of water. 1 qt., 75c; 1 gallon, \$1.75; 5 gallons, \$6.25; two 5 gallon cans, (10 gal.), \$10.60; 15 gallon drum, \$13.50

S. W. DRY LIME-SULPHUR. From 10 to 12 pounds of S. W. Dry Powdered Lime-Sulphur should be used with 50 gallons of water.
1 lb. can, 35c; 5 lb. can, \$1.40; 10 lb. can, \$2.25; 25 lb. can, \$4.00.

SUNOCO SPRAY OIL. Self Emulsifying. Dormant Spray for fruit and shade trees and shrubs.
1 gal., \$1.25; 15 gal. drum, \$10.50.

★**LIME-SULPHUR SOLUTION.** 1 gallon will make 8 gallons spraying liquid.
1 qt., 50c; 1/2 gal., 75c; 1 gal., \$1.00; 5 gal., \$4.00; 1/2 bbl. (25 gals.), \$9.00; 1 bbl. (50 gals.), \$15.00.

★**NICO-FUME LIQUID.** For destroying Aphis, Thrip and Red Spider. Contains 40 per cent nicotine.
Use one to two teaspoonful of Liquid to each gallon of water. This is a contact remedy. 1/4 lb., 75c; 1 lb., \$2.00; 4 lbs., \$7.00; 8 lbs., \$13.00.

★**CYANOGAS (Calcium Cyanide).** Fumigating Greenhouses with Calcium Cyanide, will effect a saving to most growers of more than 75 per cent over the cost of present methods of fumigation.
Per lb., 60c; 5 lbs., \$2.50; 25 lbs., \$8.50.

VOLCK. Red Spiders, mites, aphid (green fly), thrips, mealy bugs, scales, white flies, caterpillars, leaf rollers and Rose mildew can be prevented and stopped by Volck.
1/2 pt. can, 50c; 1 pt. can, 75c; 1 qt., \$1.00; 1 gal., \$3.00. Full directions on each can.

PARADOW (Para-Dichlor-Benzene). Kills the Peach Tree Borer. Full directions on each package. Must not be used on young trees. Ask for descriptive circular.
Prices: 1 lb., 60c; 5 lbs., \$2.50; 10 lbs., \$4.25.

NOTICE—Insecticides prefixed by star (★) cannot be mailed.

SPRAY PUMPS, ATOMIZERS AND BELLOWS

PARAGON SPRAYERS

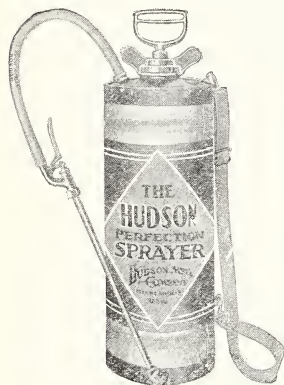
These Sprayers are strongly constructed and can be easily operated by one man. They can be brought in close proximity to the work, thereby eliminating the use of a long, expensive hose. Our patented, self-cleaning strainer prevents the necessity of first straining the liquid to be sprayed. The agitator also keeps the liquid thoroughly stirred.

Suitable for spraying Insecticides and Fungicides on trees, shrubs and vines, as well as the application of White-wash and Cold Water Paints.

- No. 0. Capacity, 3 1/2 gallons. Equipment, 4 feet spray hose, 3 feet spray pipe, 1 mist spray nozzle, 1 steel cap for mist nozzle, 1 straight spray. Price.....\$12.50
- No. 1. Capacity, 6 gallons. Equipment, 5 feet 6-ply hose, 5 feet spray pipe, two spray nozzles. Price..\$17.50
- No. 3. Capacity, 12 gallons. Equipment, 10 feet 6-ply hose, 7 1/2 feet spray pipe, two spray nozzles. Mounted on strong steel truck and can easily be wheeled to any desired place. Truck is easily detached when desired. Price.....\$25.00
- No. 3. Machine without truck. Price.....\$21.50
- No. 4. Capacity, 28 gallons. Equipment, 20 feet 6-ply hose, 10 feet spray pipe, two spray nozzles. Mounted on two strong 30-inch wheels. Price.....\$39.50
- No. 4. Machine without wheels. Price.....\$29.50
- No. 5. Capacity, 50 gallons. Equipment, 25 feet 6-ply hose, 10 feet spray pipe, one 3-way spray nozzle, one single spray nozzle. This sprayer has solid cast brass pump and large air chamber. It is positively the very best hand power sprayer made for tree spraying. Price.....\$45.00
- Nos. 1 and 3 Sprayers can be furnished with solid all cast brass pumps for—additional.....\$5.00
- No. 4 Sprayer can be furnished with solid all cast brass pump for—additional.....\$6.00

Send for descriptive circular giving detailed information.

HUDSON PERFECTION COMPRESSED AIR SPRAYER



It is just the thing for general work around the house, in gardens and small farms. Used for potato spraying, white-washing, spraying disinfectants, cold water paints, etc.

Tank. 7 1/2 inches diameter, 20 inches long, capacity, 4 gallons.

Made of first quality galvanized sheets or all brass as ordered.

No. 110G. Galvanized Steel Tank. Capacity, 4 gal., \$6.50

No. 110B. Brass Tank. Capacity, 4 gallons.....\$9.50

HUDSON PERFECTION JUNIOR COMPRESSED AIR SPRAYER

Tank, 6 1/2 inches diameter, 17 inches long, capacity about 2 1/2 gallons. Made of first quality galvanized sheets. Tested under actual working conditions at the factory.

No. 140—G. Galvanized Tank. Price, each.....\$5.00

AUTO COMPRESSED AIR SPRAYER

Can be suspended from the shoulder, allowing the free use of the arms. A few strokes of plunger in air chamber will compress enough air to discharge the entire contents. A practical machine for potatoes, tobacco, small fruits, vineyards, poultry houses, green houses, etc. Extension pipes for spraying trees.

Auto Spray. No. 1-B. Brass tank, with Auto-Pop Nozzle.....\$9.50

Auto Spray. No. 1-D. Galvanized tank, with Auto-Pop Nozzle.....\$6.50

Brass Extension. Two foot lengths—60c Elbow.....40c

Auto-Spray No. 5. Pump, hose, nozzle and strainer, complete. Price.....\$5.00
Brass Extension, extra, 60c. Elbow, extra.....40c

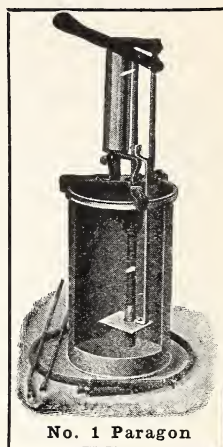


PARAGON BUCKET SPRAY PUMP

In developing the Paragon Bucket Spray Pump, it has been the aim to produce an efficient spray pump at the lowest possible cost at the same time to incorporate in this pump the features that have built up the wonderful reputation of Paragon Sprayers. Price.....\$7.00

BAMBOO BRASS LINED SPRAY POLES

12-foot lengths. Net price \$5.00
10-foot lengths. Net price 4.50



No. 1 Paragon

MYER'S LEVER BUCKET BRASS SPRAY PUMP. Complete with hose and graduating Vermorel fine, coarse spray and solid stream nozzle.....\$6.00

MYER'S DEFIANCE BRASS SPRAY PUMP. Complete with hose and graduating Vermorel fine, coarse spray and solid stream nozzle.....\$5.00

MYER'S LITTLE GIANT BRASS SPRAY PUMP. Complete with hose and imperial combination, fine, coarse spray and solid stream nozzle.....\$4.00

Four-foot Pipe Extension.....50c

Bordeaux Nozzle.....\$1.00

Graduating Vermorel Nozzle.....90c

THE ROBERTSON COMPRESSED AIR SPRAYER. Tin Pump with Tin Reservoir, each 90c; Tin Pump with Galvanized Reservoir, each, \$1.15; Brass Pump with Brass Reservoir, each, \$1.65.

ACME CYCLONE ATOMIZER. Capacity, 5 pints, 50c

ACME GLASS TANK ATOMIZER. For Mason Jar, 75c

ACME POWDER BELLOWS. Applies any powdered poison on any plant in any desired quantity.....\$1.75

WOODASON'S POWDER BELLOWS. Single cone, small...\$2.50; single cone, large....\$3.75

ACME FOG ATOMIZER. Strong, durable and satisfactory. Price, each.....50c

MIDGET ATOMIZER. A small, compact, substantial and very efficient Tin Sprayer. Price, each.....35c

CADET POWDER GUN. A small and effective Powder Gun. Price, each.....50c

FEENY MODEL DUSTERS



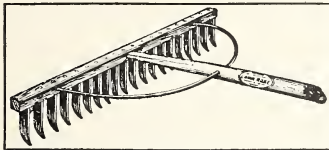
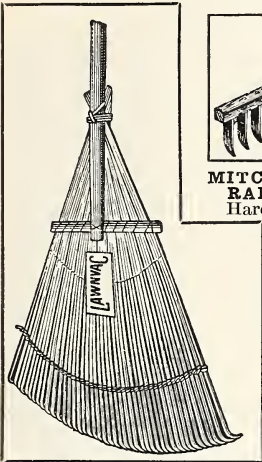
Feeny Duster

We guarantee every Feeny Piston Type Duster against any fault in material or workmanship. The Model B is a garden Duster, Model C is used for insect powders—the Model A for vine crops.

The Model A Duster. Has many other uses aside from Mexican Bean Beetle control. The dust cloud may be shot with tremendous force if desired, thus making it ideal for fruit tree dusting. The Model A is long enough to dust all ground crops without stooping. The nozzle is slightly turned and may be adjusted so as to dust upwards from underneath low growing plants. Price.....\$3.50

The Model B Duster. Is ideal for applying all kinds of powdered Insecticides and Fungicides to Trees, Plants, Vegetables, etc. In using the Model B Duster it is essential that the powder be dry, fine and free from lumps, in order to insure perfect success. Price....\$1.25

The Model C Duster. Is used for dusting Insect Powder effectively. Price.....75c



MITCHELL ALL-WOOD LAWN RAKE. Substantially built of Hardwood but light in weight.

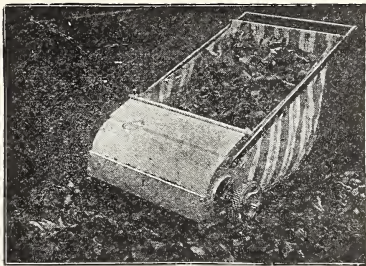
For raking leaves it is the finest thing on the market. It will not spear the leaves, so it does away with cleaning off the teeth with the hands. The head will not split. The round Hickory brace keeps the head solid on the handle. With twenty Hickory teeth set in a head 22 inches wide and a 6-foot handle, this rake is the ideal size for general use..... \$1.00

JAPANESE BROOM RAKE

An ingenious device for cleaning the debris out of a lawn or grass plot, leaving it as free from refuse as though swept with a broom. In fact, to get the best results it should be used with the motion of a broom. Made of split bamboo, rigidly secured, with a suitable length handle. Just the thing for cleaning grass clippings from walks, flower beds, borders and from the lawn. Light, durable—efficient—weighs but 12 ounces—yet tough and strong. Contains 44 teeth. Spreads 18 inches. Price..... \$1.00

LAWN CLEANER, PENNSYLVANIA

This machine will clean your lawn more thoroughly and quicker than three or four men can do it with hand rakes; and greatly benefit the turf.



In the autumn it takes up the heaviest fall of leaves. It is made of metal, wood and canvas and is put together in the most durable and thorough manner. Price... \$35.00

STANDARD FLOWER POTS, AZALEA FLOWER POTS AND ROUND SEED PANS

Size	Each	Dozen	Per 100	Size	Each	Dozen	Per 100
2 inch	\$.03	\$0.30	\$2.00	6 inch	\$.12	\$1.20	\$9.00
2 1/2 "	.03	.35	2.50	7 "	.18	1.75	14.00
3 "	.04	.40	2.75	8 "	.25	2.75	20.00
3 1/2 "	.05	.45	3.25	10 "	.60	6.50	
4 "	.06	.50	4.00	12 "	1.00	11.00	
4 1/2 "	.08	.75	6.00	14 "	1.75		

Our Flower Pots and Saucers are standard make, of extra fine finish, and bear shipping well. No charge for Packing.

FLOWER POT SAUCERS

Size	Each	Dozen	Per 100
4 inch	\$0.04	\$0.35	\$2.50
5 "	.05	.50	3.50
6 "	.06	.60	4.50
7 "	.10	1.00	7.00
8 "	.12	1.20	
10 "	.20	2.00	
12 "	.25	2.75	

McCULLOUGH'S PLANT TUBS

An excellent tub, neat and durable. Made from 3/4-inch Cypress, with iron handles and feet, 3 steel hoops and 2 coats of green paint.

No.	Size	Each
No. 7-12	12 inches diameter, 11 inches high	\$2.50
No. 8-13	" " " "	2.75
No. 9-14	" " " "	3.00
No. 10-15	" " " "	3.25
No. 11-16	" " " "	3.50
No. 12-17	" " " "	3.75
No. 13-18	" " " "	4.25
No. 14-19	" " " "	4.75

CYPRESS PLANT TUBS

Made of seasoned selected Cypress, bound with steel hoops. Painted green, inside and out, and top edge finished with round bevel.

No.	Size	Each
No. 7-12	12 inches diameter, 11 inches high	\$2.00
No. 8-13	" " " "	2.25
No. 9-14	" " " "	2.50
No. 10-15	" " " "	2.75
No. 11-16	" " " "	3.00
No. 12-17	" " " "	3.25
No. 13-18	" " " "	3.75
No. 14-19	" " " "	4.25

Neponset Waterproof Paper Flower Pots

Lower In Cost Than Earthen Pots and Unbreakable.

For over twenty years florists, nurserymen and market gardeners have used the NEPONSET Flower Pot with entire satisfaction. The pot eliminates the troubles and loss caused to shippers of plants and nursery stock in clay pots. For transplanting and shipping potted plants, and for rooting or shipping Strawberry, Tomato and Cabbage plants, NEPONSET Waterproof Pots are almost ideal.

Size	Dozen	Per 100	Per 1000	Size	Dozen	Per 100	Per 1000
2 1/4 inch	\$0.10	\$0.60	\$5.00	3 1/2 inch	\$0.20	\$1.15	\$10.00
2 1/2 inch	.10	.70	6.00	4 inch	.25	1.40	12.50
3 inch	.15	.85	7.50	5 inch	.30	2.00	17.50

Lack of space prevents us listing all the Horticultural Tools and Sundries we carry—but will be pleased to supply any equipment needed at current prices.

STUCCO BIRD HOUSES

The birds which nest and harbor in cavities and hollows are in most instances the most valuable of our native birds, which love the vicinity of man, seemingly not only to delight him with chirp and song, but are the most diligent to keep plant life free from parasites and devouring insects.



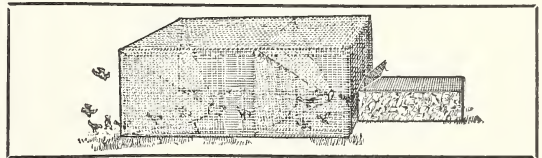
Titmouse Hut

Our model hutlets and cabins which we provide for these charming entertainers are appreciated by all bird lovers.

PRICE LIST OF HUTS AND CABINS

Wren Hutlet, each	\$.25	Bluebird Hut, each	\$.25
Titmouse, each	2.50	Chickadee Hutlet, ea.	2.50
Woodpecker and Flicker Hut, each	2.75	Martin Houses	\$8.00 to \$50.00
Feederies, Small	\$2.50 to 5.00	Squirrel Cabins, each	8.00

The Dodson Improved Sparrow Trap



The Dodson Sparrow Trap is made of tinned wire, electrically welded, strong and durable—will last for years. It has sharp, adjustable needle points projecting from the mouth of each of the two funnels, which effectively prevent any sparrows from getting out of either the front or second enclosure. Size 36 x 18 x 12 inches.

Price, complete with receiving box..... \$9.00



POULTRY APPLIANCES AND SUPPLIES

PRAIRIE STATE SAND TRAY INCUBATORS

The Prairie State Incubators are built in four sizes, ranging from 100 to 390 eggs. All Prairie States are equipped with Sand Trays, Egg Trays, Nursery Mats, Thermometers, Egg Testers, Lamps and everything complete ready to operate.

Standard No. 0, 100 hen eggs; 135 lbs., crated..... \$25.00
Standard No. 2, 240 hen eggs; 240 lbs. crated..... 47.50

Egg capacity considered, the Prairie State Incubators are now the lowest priced high-grade machines on the market.

BUCKEYE INCUBATORS

We offer these incubators as the best Hot Water Incubators on the market. These Incubators are built in several sizes to meet all requirements both in size and price. Send for Descriptive Catalogue.

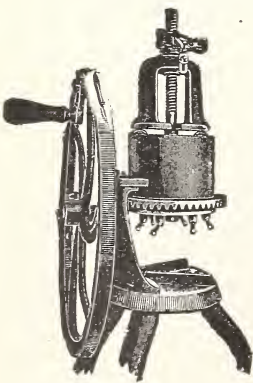
No. 14. (Style E). Capacity, 65 eggs..... \$16.50
No. 16. (Style E). Capacity, 110 eggs..... 27.50
No. 17. (Style E). Capacity, 210 eggs..... 36.75
No. 1. (Standard). Capacity, 110 eggs..... 37.50
No. 2. (Standard). Capacity, 175 eggs..... 44.50
No. 3. (Standard). Capacity, 250 eggs..... 57.75
No. 4. (Standard). Capacity, 350 eggs..... 68.00
Buckeye Incubator Thermometer..... 1.00
Wire Holder for Thermometer..... .15

"RED CHIEF"

Rapid Grinding Feed and Grist Mill
For Grinding Small Dry Grain

No. 1. Capacity, 1 to 2 bushels per hour..... \$3.60
No. 2. Capacity, 1 to 1 1/2 bushels per hour..... \$5.00
No. 5. Capacity, 1 1/2 to 2 bushels per hour with fly wheel..... \$7.00
Nos. 1, 2 and 5 Mills clamp or bolt to box as desired.
Have hooks on which to hang a bucket.
No. 10. Capacity, 2 to 4 bushels per hour. Fitted with fly wheel. Price..... \$8.50
No. 15. Combined Hand and Power Mill. Capacity, 6 to 8 bushels per hour. Price..... \$14.50
No. 20. Power Mill. Capacity, 10 to 20 bushels per hour. Price..... \$20.00

MANN'S GREEN BONE CUTTERS



No. 5-C. For flocks of 25 to 50 hens. Weight 35 lbs. Price..... \$12.50
No. 5-B. For flocks of 25 to 50 hens. Weight 60 lbs. Price..... \$15.50
No. 5-B.M. For flocks of 25 to 50 hens. Weight 85 lbs. Price..... \$18.75
The No. 5-C, No. 5-B and No. 5-B, M. do not have the split hinged cylinder.
No. 7. For flocks of 75 to 150 hens. Weight, 107 lbs. Price..... \$20.75
No. 7 1/2. Capacity, 50 to 100 lbs. per hour. Weight 150 lbs. Price..... \$29.00
No. 9. For flocks of 200 to 300 hens. Weight, 170 lbs. Price..... \$31.00
No. 11. Capacity, 100 lbs. and upwards per hour.

Weight, 215 lbs. Price..... \$45.00
No. 12. Capacity 150 lbs. per hour. Weight 260 lbs. Price..... \$65.00

Send for Descriptive Catalogue of Bone Cutters.

ROUND BOTTOM DRY FOOD HOPPER

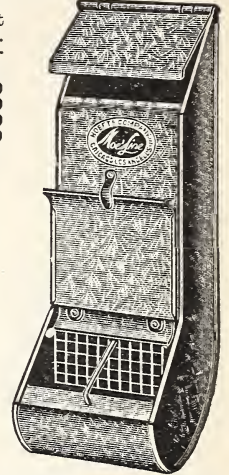
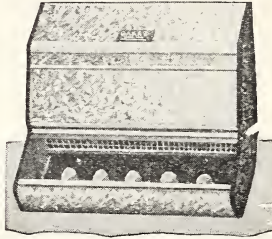
Dry mash and meat scrap feed readily. Each..... \$0.50

MOE'S DRY MASH HOPPER

A trial will convince you that it is a Hopper of the greatest merit. Manufactured of heavy galvanized iron in four sizes.

No. 35—8 1/2 in. wide, each... \$1.50
No. 36—12 in. wide, each.... 2.00
No. 13—18 in. wide, each.... 2.40
No. 37—24 in. wide, each.... 2.80

IMPROVED HANDY HOPPER



The Improved Handy Hopper is made of galvanized iron throughout. All parts are spot welded together. It is provided with hinged lid over both hopper and trough, making it rat and mouse proof, as well as dirt proof.

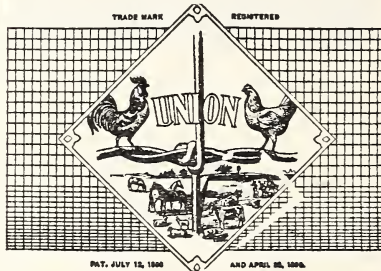
It is provided with a swinging front, adjustable to suit any kind of dry mash and which eliminates any possibility of clogging.

Hopper is 15 inches in height, 4 1/2 inches in width and made in four lengths.

No. 1—12 inches in length, each..... \$1.75
No. 2—18 inches in length, each..... 2.25
No. 3—24 inches in length, each..... 2.75
No. 4—36 inches in length, each..... 3.90

UNION LOCK POULTRY FENCING

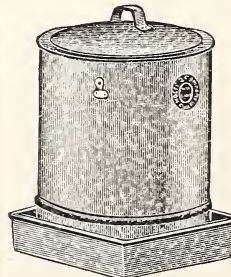
As all of the cables are the same length, and run the whole length of the fabric, every part can be stretched perfectly. Because of its strength and construction, this



fence requires no top or bottom rail and no more posts than the ordinary woven stock fence, or about one-half the number needed in ordinary poultry netting. Union Fence is especially adapted for use where a light, attractive and neat appearing fence is required.

12-in., bale of 10 rods, \$2.00
18-in., bale of 10 rods, 3.00
24-in., bale of 10 rods, 3.60
36-in., bale of 10 rods, \$4.35
48-in., bale of 10 rods, 5.00
60-in., bale of 10 rods, 5.50
72-inch, bale of 10 rods, \$6.00

MOE'S IMPROVED TOP FILL FOUNTAINS



Provides pure, fresh water at all times. The double wall construction retards freezing and keeps water cool in summer. Fills from the top, easily cleaned, and feeds automatically.

No. 1. Capacity 1 gallon, each..... \$1.75
No. 2. Capacity 2 gallons, each..... \$2.50
No. 4. Capacity 4 gallons, each..... \$3.25

PRAIRIE STATE MEAT SCRAP HOPPER

Capacity 10 pounds scrap. Each..... \$0.50

OAKES "IMPROVED" DROP BOTTOM FOUNTAINS

The hinged bottom enables fountain to be thoroughly cleaned, while flat back keeps it firm against the wall. Drinking space two-thirds distance around can.

No. E-23, 1 gallon, each \$1.25
No. E-24, 2 gallons, each 1.65
No. E-25, 4 gallons, each 2.25

DOUBLE QUICK GRAIN SPROUTERS

The Perpetual Poultry Silo that grows Green Feed while you wait. Sprouts in 20 to 30 hours and forces growth of an inch to two a day. Makes 2 to 6 bushels of green feed from one of dry grain. Many thousands of the Double Quick now in every part of the United States and Canada, and is in use in almost every civilized country in the world.

Made in several styles and sizes. Send for descriptive circular.

ALUMINUM FEEDING TROUGH

Excellent for feeding Buttermilk, as the aluminum is not affected by the acids of sour milk and similar feeds. Has sliding top. Easy to clean and will never rust.

No. 69. Length 10 inches, each 50c
No. 70. Length 20 inches, each 90c

Poultry, Pigeon and Dog Feeds and Supplies

We have over 50 different feeds for Poultry, Pigeons and Birds, but on account of market fluctuations it is impossible to quote firm prices on Grain Feeds, but will be glad to quote Special Prices on Feeds of all kinds on request.

We quote present market values on the following:

MEAT SCRAPS. 50 per cent Protein. 3 lbs., 25c; 25 lbs., \$1.40; 50 lbs., \$2.60; bag of 100 lbs., \$4.85.

DIGESTER TANKAGE. 60 per cent Protein. Per bag of 100 lbs., \$4.85.

BLOOD MEAL. 80 per cent Protein. 2 lbs., 25c; 25 lbs., \$1.75; 50 lbs., \$3.35; bag of 100 lbs., \$6.40.

GRANULATED BONE. Furnished in two sizes; fine and medium. 4 lbs., 25c; 25 lbs., \$1.30; 50 lbs., \$2.40; bag of 100 lbs., \$4.50.

GRANULATED BONE MEAL, for Poultry and Hogs. 4 lbs., 25c; 25 lbs., \$1.30; 50 lbs., \$2.40; bag of 100 lbs., \$4.50.

CHARCOAL. Furnished in four sizes; fine, chick, medium and coarse. 5 lbs., 25c; 25 lbs., 80c; 50 lb. bag \$1.25.

CRUSHED OYSTER SHELLS. Furnished in two sizes; fine for chicks and pigeons, coarse for poultry. 5 lbs., 15c; 25 lbs., 50c; 50 lbs., 80c; bag of 100 lbs., \$1.25.

MICA-CRYSTAL GRIT. Furnished in three sizes; fine for chicks, medium for pigeons, coarse for poultry. 5 lbs., 15c; 25 lbs., 50c; 50 lbs., 75c; bag of 100 lbs., \$1.20.

SPRATT'S CHICK MEAL. 2 lbs., 30c; 25 lbs., \$3.40; 50 lbs., \$6.65; bag of 100 lbs., \$13.00.

SPRATT'S POULTRY MEAL. 2 lbs., 30c; 25 lbs., \$3.40; 50 lbs., \$6.65; bag of 100 lbs., \$13.00.

SPRATT'S TURKEY MEAL, GAME MEAL AND PHEASANT MEAL. 2 lbs., 30c; 25 lbs., \$3.40; 50 lbs., \$6.65; bag of 100 lbs., \$13.00.

FELKER'S WALL FEEDERS

Practical dry mash feeders designed to hang on the wall. No. 12 Feeder. 12 inches long. Each.....\$0.50

NEST EGGS

Lice Expelling. Each, 10c; 3 for 25c; per dozen, 75c.
Porcelain. 3 for 15c; per dozen, 40c.
Lime. 3 for 15c; per dozen, 40c.

EGG BOXES

Paper Carton. 1 dozen size, per dozen, 20c; per 100, \$1.50.
Continental Safety Carton. 1 dozen size, per dozen, 25c; per 100, \$2.25.

EGG CARRIERS

Humpty Dumpty. 6 dozen size, each, 50c; 9 dozen size each, 55c; 30 dozen size, each, \$1.00.
Moe's Regal, No. 14—15 eggs, each, 20c; No. 15—30 eggs, each, 40c; No. 16—50 eggs each, 70c; No. 17—100 eggs, each, \$1.25; No. 18—12 duck or turkey eggs, each, 25c.

LEG BANDS

Key Ring. (Celluloid.) For American, Asiatic and Mediterranean Breeds. 10 colors—black, white, dark blue, pink, light blue, red, garnet, green, yellow, purple. Per dozen, 15c; 25 for 30c; 50 for 50c; 100 for 75c.
Pigeon and Baby Chick Sizes. (Celluloid.) Per dozen, 15c; 25 for 30c; 50 for 50c; 100 for 75c.

SPRATT'S DOG AND PUPPY FOODS

Require no preparation, no trouble, no cooking, and are adapted for all breeds of dogs.

SPRATT'S PATENT DOG CAKES. Per lb., 15c; 7 lbs., \$1.00; 25 lbs., \$3.40; 50 lbs., \$6.65; 100 lbs., \$13.00.
SPRATT'S PATENT PUPPY CAKES. 2 lbs., 35c; 6 lbs., \$1.00; 25 lbs., \$3.55; 50 lbs., \$6.90; 100 lbs., \$13.50.
SPRATT'S OVALS. For all breeds. Per lb., 15c; 7 lbs., \$1.00; 25 lbs., \$3.40; 50 lbs., \$6.65; 100 lbs., \$13.00.
SPRATT'S FIBO. An appetizing food for shy and dainty feeders. Per lb., 15c; 7 lbs., \$1.00; 25 lbs., \$3.65; 50 lbs., \$7.15; per bag of 100 lbs., \$14.00.

PRATT'S BUTTERMILK BABY CHICK FEED

2 1/2 lb. pkg., 25c; 5 1/2 lb. pkg., 50c; 14 lb. bag, \$1.25; 25 lb. bag, \$2.00; 50 lb. bag, \$3.50; 100 lb. bag, \$6.00.

MUSTARD FOR POULTRY

FRENCH'S POULTRY MUSTARD. 1 1/2 lbs., 55c; 3 lbs., \$1.00; 5 lbs., \$1.65; 10 lbs., \$3.25; 25 lbs., \$7.80; 100 lb. drum, \$20.00.

FLIT

Destroys Flies, Mosquitoes, Moths, Ants, Bed Bugs, Roaches—Other Insects and their eggs.
1/2-pt., 50c; 1 pt., 75c; 1 qt., \$1.25; 1 gallon, \$4.00.

CARBOLA

A Disinfectant Germ-Killing White Paint.

There is nothing that contributes more to success in poultry raising than absolute cleanliness and sanitation in the poultry house. Clean living quarters mean as much as proper feeding. 5 lb. pkg., 75c; 10 lb. pkg., \$1.25; 50 lb. pkg., \$6.25.

O. K. POULTRY LITTER

DEODORIZER, ABSORBENT, DISINFECTANT,
ECONOMICAL AND LABOR SAVING

O. K. POULTRY LITTER is a great Labor Saver and does away with most of the unpleasant work of caring for poultry. Repels vermin and is so light and springy that heavy birds do not injure themselves when alighting on it, thereby preventing bumble foot and lameness. Keeps the birds clean as it prevents the droppings from sticking to them. It is very economical as it outlasts any other Litter two or three times. Prevents dampness and keeps the coops pure and sweet—there will be no unpleasant odors where it is used. Saves the cost of disinfectants. One bale will cover about 80 square feet 3 inches deep. Per bale, \$4.50. Write for prices on larger quantities.



O. K. POULTRY LITTER

Prices on all Poultry Feeds and Appliances subject to change without notice.
Write us for Special Prices on all Kinds of Feeds.

NEWTOWN GIANT COLONY BROODERS

"Newtown" Colony Brooders were the first coal burning, self-feeding, self-regulating colony brooders made. They have proven satisfactory in every State and abroad. Made in three sizes to meet general requirements.

Actual photograph showing absolute Chick comfort under "Newtown" Coal-burning Colony Brooder.

The Chicks are happy and contented, because they have plenty of pure, fresh air.

Note the wide circle formed by the Chicks—just where the heat is distributed by the "Newtown's" specially constructed Heat Radiator and cone-shaped Deflector.

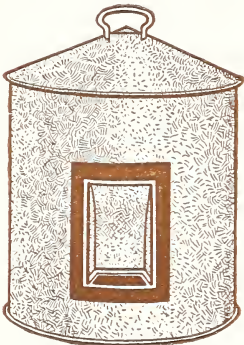


Newtown Colony Brooder Mothering the Chicks

There is no crowding of Chicks around the "Newtown" and they get the temperature best suited to their individual needs by moving toward or away from the stove.

It is unnecessary to raise or swing this conical Deflector around when attending the Brooder and the Chicks are never disturbed.

- No. 7. Capacity, 250 chicks or less \$25.00.
- No. 11. Capacity, 500 chicks or less \$32.50.
- No. 12. Capacity, 1200 chicks or less, \$40.00.



Royal Thermic Fountain

ROYAL THERMIC FOUNTAIN

In cold weather it keeps the water at the right temperature. Warm water in the winter means more eggs at the higher prices. No chopping of ice in disagreeable weather when our fountain is used. In summer weather it insures good, clean, cool water at all times for the poultry. Easy to fill and clean. Inserted drinking pocket keeps dirt and litter out.

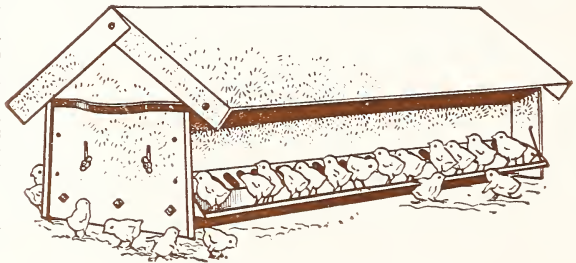
- Made in Three Sizes: No. 2. 2-gal., each, \$3.50; No. 3. 3-gal., each, \$4.00; No. 5. 5-gal., each, \$5.00.

ADJUSTABLE DRY MASH FEEDER

The Adjustable is an ideal mammoth baby chick feeder. It will keep plenty of clean, sweet feed within easy reach of the tiniest chicks without them wasting or getting into it. We say, "ONE FEED-

ER DOES THE WORK OF THREE" because it is just as practical for the growing flock and matured fowls as for the baby chicks, feeding them without wasting or clogging. It thus combines the three ordinarily essential feeders in one and assures you of a feeder your chicks will never outgrow. A handy quick adjustment makes this possible. It is also labor saving, for one filling lasts 200 to 275 chicks approximately one week.

It is made of heavy galvanized iron and has adjustable steel legs. It feeds from both sides—has five feet of feeding space—is weather-proof. No. 35—Capacity, 1 bushel, each, \$6.50.



The J. M. McCullough's Sons Co., Seedsmen

R. S. McCULLOUGH, President

CHAS. R. MOORE, Vice-President

The Leading and Oldest Established Seed House in the Middle States

Trade Marks registered, McCullough's Seeds, XXXX, Buckeye, Suburban Lawn Grass, Central Park Lawn Grass

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