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McCULLOUGH'S
Catalogue of
Bulbs, Seeds,
Plants,
Shrubs, Fruit Trees, Etc.

Autumn
1-9-2-0

WITH COMPLETE CULTURAL DIRECTIONS FOR BULBS

The J. M. McCullough's Sons Co.
SEEDSMEN
316 WALNUT STREET
316 Just Below Fourth

H. B. McCULLOUGH, President
GEO. H. PARVIN, Vice-Pres't

Established 1838

Long Distance Phone Main 4598
P. O. Box 845
Cincinnati, O.
INSTRUCTIONS
Always Get Your Bulbs Early

Established 1838
Incorporated 1904

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 (chidly lilites) 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 Catalogues with regularity; if you receive two catalogues of the same kind, please hand one to some friend who is interested in floriculture.

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 catalogue.

Our Spring Catalogue of Seeds, Bulbs, etc. for 1920 will be ready about January 1st, and will be sent free to all customers and applicants.

PREMIUMS AND OFFERS TO CLUBS

To induce our patrons to form clubs to purchase bulbs in quantities we offer the following liberal discounts on bulbs selected from our general lists:

On $1.00 order may select bulbs to the amount of... $1.10
2.00 " " " " " " " " " " " " " " " " " " " " " 2.25
3.00 " " " " " " " " " " " " " " " " " " " " " 3.45
4.00 " " " " " " " " " " " " " " " " " " " " " 4.60
5.00 " " " " " " " " " " " " " " " " " " " " " 5.75
6.00 " " " " " " " " " " " " " " " " " " " " " 6.90
7.00 " " " " " " " " " " " " " " " " " " " " " 8.05
8.00 " " " " " " " " " " " " " " " " " " " " " 9.20
9.00 " " " " " " " " " " " " " " " " " " " " " 10.35
10.00 " " " " " " " " " " " " " " " " " " " " " 11.50

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 pounds; to all other zones, 50 pounds.

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

<table>
<thead>
<tr>
<th>Zone</th>
<th>First Pound</th>
<th>Each Additional Pound</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 and 2—150 miles</td>
<td>.5c</td>
<td>1c</td>
</tr>
<tr>
<td>3—150 to 300 miles</td>
<td>.6c</td>
<td>2c</td>
</tr>
<tr>
<td>4—300 to 600 miles</td>
<td>.7c</td>
<td>4c</td>
</tr>
<tr>
<td>5—600 to 1,000 miles</td>
<td>.8c</td>
<td>6c</td>
</tr>
<tr>
<td>6—1,000 to 1,400 miles</td>
<td>.9c</td>
<td>8c</td>
</tr>
<tr>
<td>7—1,400 to 1,800 miles</td>
<td>1.1c</td>
<td>10c</td>
</tr>
<tr>
<td>8—all over 1,800 miles</td>
<td>1.2c</td>
<td>12c</td>
</tr>
</tbody>
</table>

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

The J. M. McCullough's Sons Co., give no warranty, express or implied, as to description, quality, productiveness, or any other matter of any seeds, bulbs or plants they send out, and they will not be in any way responsible for the crop. If the purchaser does not accept the goods on these terms, they are at once to be returned.

THE J. M. McCULLOUGH'S SONS CO.
H. B. McCULLOUGH, Pres't.
GEO. H. PARVIN, Vice-Pres't.
Seedsmen and Importers of BULBS
Salesrooms and Offices:
316 WALNUT STREET 316 WALNUT STREET
Just Below Fourth Just Below Fourth
P. O. Box 845 P. O. Box 845
Cincinnati, Ohio Cincinnati, Ohio

Established 1838
Incorporated 1904
Established 1838
Incorporated 1904
THE J. M. McCULLOUGH'S SONS CO., Cincinnati, 0.
316 Walnut Street, Between Third and Fourth Streets

**ORDER SHEET**

<table>
<thead>
<tr>
<th>Name of Person</th>
<th>Date</th>
<th>192</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot; Post Office</td>
<td>Remittance may be made by P. O. Order, Express Money Order, Postage Stamps, Drafts on New York or Cincinnati, or Cash by Express.</td>
<td></td>
</tr>
<tr>
<td>&quot; Rural Route</td>
<td>Enclosed find Cash</td>
<td>$</td>
</tr>
<tr>
<td>&quot; State</td>
<td>&quot; Draft</td>
<td>$</td>
</tr>
<tr>
<td>&quot; Shipping Point (If different)</td>
<td>&quot; P. O. Order</td>
<td>$</td>
</tr>
<tr>
<td></td>
<td>&quot; Express Money Order $</td>
<td></td>
</tr>
<tr>
<td>Please forward by</td>
<td>&quot; Postage Stamps</td>
<td>$</td>
</tr>
</tbody>
</table>

Please use this Order Sheet for orders only, and carry out Catalogue Price of each article. Write your letters on a separate sheet. By observing these directions, it will help us to fill your order with greater accuracy. More order blanks will be sent on request. Always write letters on a separate sheet from your order. We give no warranty, express or implied, as to description, quality, productiveness or any other matter of any seeds, bulbs or plants we send out, and we will not be in any way responsible for the crop. If the purchaser does not accept the goods on these terms, they are at once to be returned.

**THE J. M. McCULLOUGH'S SONS CO.**

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Name of Article Wanted</th>
<th>Price</th>
<th>Quantity</th>
<th>Name of Article Wanted</th>
<th>Price</th>
</tr>
</thead>
</table>

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<th>Price</th>
<th>Quantity</th>
<th>Name of Article Wanted</th>
<th>Price</th>
</tr>
</thead>
</table>

The above named Hyacinths, each 20c; Per doz. $2.00; Per 100 $15.00.

Persons purchasing Hyacinths at our counters, or who wish to pay their own express charges may deduct 10c per dozen from these prices when bought by the dozen.
FROM

The J. M. McCullough's Sons Co.
SEED MERCHANTS,
No. 316 Walnut Street,
P. O. Box 845
CINCINNATI, OHIO.
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 in October, November, or December. If 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. 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 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 in a dark cool closet or room, to promote the starting of the roots; after which expose them to the 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 fibers 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.

Choice Named Single Hyacinths
(Extra Selected, First-Size)

It is supposed by many that the best Hyacinths are those which produce double flowers. This is by no means correct, there being many more of the single varieties producing fine, free and brilliant spikes of bloom, and they succeed better in glasses than the double.

Prices Per Dozen and Single Bulb Include Postage

We offer the following named varieties at the uniform price of each 20c, per dozen $2.00, per 100 $15.00.

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.
GIANTINA, delicate pink, large bells.
LADY DERBY, bright rose, large spike and flower, excellent for forcing or pot culture, large bulb.
LA VICTOIRE, 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.

Single Pure and Tinted White

ALBERTINE, pure white, early, good forcing variety.
ARETINE ARENDESEN, pure white, large spike and flowers, very early; splendid for forcing.
BLANCHEUR, pure white, large broad truss.
BRITISH QUEEN, pure white, naturally early.
CORREGIO, the large, fleshy bells are snow white, and form a perfect truss of great beauty and size; good forcing.
GERALD VETTER, bluish white, very large spike, splendid early forcing.
GRANDE BLANCHE, bluish white, large spike and flowers, early.

The above named Hyacinths, each 20c; per dozen $2.00; per 100 $15.00.

Persons purchasing Hyacinths at our counters, or who wish to pay their own express charges may deduct 10c per dozen from these prices when bought by the dozen.

Single Pure and Tinted White (Cont’d)

GRANDEUR A MERVEILLE, rosy-white, large truss.
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 compact truss.
GRAND LILAS, silvery lilac, large compact truss.
GRAND MAITRE, deep porcelain blue, large truss.
KING OF BLUES, dark rich blue, splendid spike.
LA PEYROUSE, light blue, large bells.
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.
SCHOTEL, light blue, long perfect truss; early, good forcing.

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.
Select First-Size Named Double Hyacinths

While double-flowering Hyacinths do not, as a rule, produce as fine spikes as the single sorts offered on Page 1, yet they are exceedingly handsome, and deserve extensive cultivation. The varieties listed below are those which we have found by actual tests to be the most satisfactory.

We offer the following named varieties at the uniform price of . . . . Each, 20c; per dozen, $2.00; per 100, $15.00.

Double Red and Rose
BOUQUET TENDRE, dark carmine, good spike.
CHESTNUT FLOWER, bright rose, large flower.
GROOTVORST, pink, large truss and bells.
NOBLE PAR MERITE, rose, large bells, splendid truss.
PRESIDENT ROOSEVELT, bright rose, fine spike.
PRINCE OF ORANGE, blush rose, fine spike, semi-double.

Double White
BOUQUET ROYAL, pure white, fine spike.
LA TOUR D'AUVERGNE, pure white, very early.
LA VIRGINITE, blush white, dwarf, large bells.
PRINCE OF WATERLOO, pure white, large spike.
QUEEN OF WHITES, pure white, large truss, fine flower.

Double Blue
BLOESBERG, porcelain striped, large truss.
CROWN PRINCE OF SWEDEN, violet blue.
GARRICK, lilac blue, with bright blue stripe.
VAN SPEYK, porcelain blue, a grand flower.

Double Yellow
BOUQUET de ORANGE, Orange.
GOETHE, clear, pale yellow, large bells, fine truss.
JAUNE SUPREME, deep yellow tinted with salmon.
SUNFLOWER, yellow, tinted salmon.

Above named Hyacinths, Each, 20c; per dozen, $2.00; per 100, $15.00.
Price Per Dozen and Single Bulb Includes Postage.

Select Second-Size Named Single Hyacinths

These are smaller than our Extra Selected first-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 each 15c; per doz., $1.50; per 100 $10.00.

Single Red, Rose and Pink
CARDINAL WISEMAN, charming bright rose pink, large spike.
BLANCHE, pure white, large broad truss.
GERTRUDE, deep rose, fine compact spike.
GIANTEA, delicate pink, large bells.
MORENO, waxy pink; large truss and bells, extra fine variety.
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
ARENDSSEN, pure white, large spike, good former.
BLANCHE, pure white, large broad truss.
CORREGIO, pure white, large truss, good former.
GRANDE BLANCHE, blush white, large spike and flowers, early.
GRANDEUR A MERVELLE, rose-white, large truss.
LA GRANDESSA, pure white, with immense bells; one of the best in cultivation.
L'INNOCENCE, pure white, extra large truss.

Single Blue, Lavender and Purple
ENCHANTERESS, porcelain blue, large compact truss.
GRAND MAITRE, deep porcelain blue, large truss.
KING OF BLENDS, dark, rich blue, splendid spike.
LA PEYROUSE, light blue, large bells.
MARIE, dark purple, very large spike.
QUEEN OF BLENDS, beautiful azure blue, large bells and handsome truss; late.
REGULUS, light blue, good former and bedder.

Single Yellow
CITY OF HAARLEM, golden yellow, large truss; extra.
KING OF YELLOWS, pure yellow, large bell and spike.
YELLOW HAMMER, golden yellow, large spike.

The above named Hyacinths, each 15c; per doz., $1.50; per 100, $10.00.

Persons purchasing Hyacinths at our counters, or who wish to pay their own express charges may deduct 10c per dozen from these prices when bought by the dozen.
CHOICE UN-NAMED 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.

Prices per Dozen and Single Bulb Include Postage.

We offer the following un-named varieties at the uniform price of ... each, 10c; per doz., $1.00; per 100, $5.00.

<table>
<thead>
<tr>
<th>Single Varieties</th>
<th>Double Varieties</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot; Rose.</td>
<td>Rose.</td>
</tr>
<tr>
<td>&quot; Pure White.</td>
<td>Pure White.</td>
</tr>
<tr>
<td>&quot; White, tinted.</td>
<td>White, tinted.</td>
</tr>
<tr>
<td>&quot; Dark Blue and Purple.</td>
<td>Dark Blue and Purple.</td>
</tr>
<tr>
<td>&quot; Light Blue.</td>
<td>Light Blue.</td>
</tr>
<tr>
<td>Yellow.</td>
<td>Yellow.</td>
</tr>
<tr>
<td>SINGLE MIXED, all colors.</td>
<td>DOUBLE MIXED, all colors.</td>
</tr>
</tbody>
</table>

HYACINTHS--Miniature or Dutch Roman

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. Each 6c; per doz., 65c per 100. $4.25.

Round Bed of Named Single Hyacinths, Second-Size

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

Combination No. 1. (100 Hyacinths—select Second Size Named). 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 $10.00, not prepaid.

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

Price $6.00 not prepaid.

SQUARE BED OF Single Hyacinths

This illustration represents a bed 6 feet square, requiring a total of 169 bulbs planted 6 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, $15.50 not prepaid.

“Suburban Combination” consists of 169 Choice Un-named Hyacinths, mixed shades. Price $9.00, not prepaid.

McCULLOUGH’S COLLECTIONS OF NAMED HYACINTHS

Special Selection for Growing in Water.

This selection is made up of sorts which are especially adapted for the purpose. For cultural notes see page 1. 12 distinct named single varieties; our selection ... $2.00

Persons purchasing Hyacinths at our counters, or who wish to pay their own express charges may deduct 10c per dozen from these prices when bought by the dozen.
**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 or baskets, and will force well with Hyacinths under the same treatment. For out-door 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.

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.

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**Prices per Dozen and Single Bulb Include Postage**

Persons purchasing Tulips at our counters, or who wish to pay their own express charges, may deduct 5c per doz. when bought by the dozen. Prices per 100 are not prepaid.

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### SINGLE EARLY TULIPS

<table>
<thead>
<tr>
<th>Varieties</th>
<th>Each Per Doz.</th>
<th>Per 100</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ARTUS</strong>, b7, scarlet, fine bold flowers, good for forcing or bedding.</td>
<td>$0.06</td>
<td>$0.60</td>
</tr>
<tr>
<td><strong>BELLE ALLIANCE</strong>, b7, brilliant scarlet, large flower, sweet scented; fine for bedding and forcing.</td>
<td>$0.06</td>
<td>4.50</td>
</tr>
<tr>
<td><strong>CHRYSSOLARA</strong>, b9, pure yellow, large and handsome flower; finest yellow bedder.</td>
<td>$0.06</td>
<td>4.50</td>
</tr>
<tr>
<td><strong>COTTAGE MAID</strong>, b6, rosy pink, edged with white; a charming variety for bedding and late forcing</td>
<td>$0.06</td>
<td>4.50</td>
</tr>
<tr>
<td><strong>CRIMSON BRILLIANT</strong>, b9, brilliant scarlet large flower; splendid variety for bedding and forcing</td>
<td>$0.06</td>
<td>4.50</td>
</tr>
<tr>
<td><strong>DUC DE BERLIN</strong>, a8, scarlet with broad yellow edge and yellow base; good for forcing.</td>
<td>$0.06</td>
<td>4.50</td>
</tr>
<tr>
<td><strong>DUCHESS DE PARMA</strong>, b9, brownish red with yellow border, large flower; good forer and bedder</td>
<td>$0.06</td>
<td>4.00</td>
</tr>
<tr>
<td><strong>DUSART</strong>, b8, dark scarlet, large and very robust, fine for parks, a grand flower; finest scarlet bedder</td>
<td>$0.06</td>
<td>4.00</td>
</tr>
<tr>
<td><strong>GRAND DUC</strong> (Keizerskroon), b9, deep crimson with broad orange yellow margin, large and effective</td>
<td>$0.06</td>
<td>4.00</td>
</tr>
<tr>
<td><strong>JOOST VAN VONDEL</strong>, b8, crimson, flamed white, large and distinct.</td>
<td>$0.06</td>
<td>4.50</td>
</tr>
<tr>
<td><strong>KING OF YELLOWS</strong>, b9, deep golden yellow; extra large and showy; good for early forcing.</td>
<td>$0.06</td>
<td>4.00</td>
</tr>
<tr>
<td><strong>LA REINE</strong> (Queen Victoria). b6, white, slightly shaded rose; good variety for bedding or forcing.</td>
<td>$0.06</td>
<td>4.50</td>
</tr>
<tr>
<td><strong>L’IMMACULEE</strong>, b7, pure white, very early and fine; excellent for forcing and bedding.</td>
<td>$0.06</td>
<td>4.50</td>
</tr>
<tr>
<td><strong>POTTENBAKER SCARLET</strong>, a8, bright scarlet, very large and fine flower.</td>
<td>$0.06</td>
<td>4.50</td>
</tr>
<tr>
<td><strong>WHITE</strong>, a8, pure white, fine large showy flower.</td>
<td>$0.07</td>
<td>5.00</td>
</tr>
<tr>
<td><strong>YELLOW</strong>, a8, large fine bright golden yellow; excellent forer.</td>
<td>$0.07</td>
<td>5.00</td>
</tr>
<tr>
<td><strong>PRINCESS MARIANNE</strong>, b8, white, with rosy stripe, large flower; excellent for bedding.</td>
<td>$0.06</td>
<td>4.50</td>
</tr>
<tr>
<td><strong>PRINCE OF AUSTRIA</strong>, b9, orange scarlet, sweet scented; fine forer or bedder, a grand Tulip.</td>
<td>$0.06</td>
<td>4.50</td>
</tr>
<tr>
<td><strong>PROSERPINE</strong>, a8, carmine rose, rich, silky and effective, beautifully shaped large flower.</td>
<td>$0.10</td>
<td>7.00</td>
</tr>
<tr>
<td><strong>ROSA MUNDI</strong>, b8, white, shaded with rich rose, very strong stem; early.</td>
<td>$0.06</td>
<td>4.50</td>
</tr>
<tr>
<td><strong>ROSE GRISDELIN</strong>, b6, delicate rose, shaded white; fine for forcing and bedding; very beautiful.</td>
<td>$0.06</td>
<td>4.00</td>
</tr>
<tr>
<td><strong>THOMAS MOORE</strong>, b10, orange scarlet, effective large tulip; sweet scented.</td>
<td>$0.06</td>
<td>4.00</td>
</tr>
<tr>
<td><strong>VERMILION BRILLIANT</strong>, b8, deep dazzling vermilion; extra fine for pots and massing.</td>
<td>$0.07</td>
<td>5.00</td>
</tr>
<tr>
<td><strong>WHITE SWAN</strong>, b9, large pure white, egg shaped flower on tall stems.</td>
<td>$0.06</td>
<td>4.00</td>
</tr>
<tr>
<td><strong>YELLOW PRINCE</strong>, b7, golden yellow, extra large and showy, scented as a Tea Rose.</td>
<td>$0.06</td>
<td>4.00</td>
</tr>
<tr>
<td><strong>CHOICEST MIXED</strong>, from above named varieties; extra fine.</td>
<td>$0.06</td>
<td>3.50</td>
</tr>
<tr>
<td><strong>FINE MIXED</strong>, including all colors and shades.</td>
<td>$0.05</td>
<td>3.00</td>
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Late May Flowering Single Tulips

This beautiful class is becoming more popular as they become better known. They 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 hardness, 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 can stand out in a 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.


Each, 5c; per dozen, 50c; per 100. $3.50.

**GESNERIANA SPATHULATA.** (28 inches). Intense crimson scarlet, with a blue-black center. The tallest, largest flowered and showiest of all Tulips for bedding out in masses. Flowers of enormous size.

Each, 5c; per dozen, 50c; per 100. $3.50.

**GESNERIANA ROSEA.** (24 inches). Very large flowers of a bright rose color, with blue center, remaining in perfection for a long time. Each, 5c; per dozen, 50c; per 100. $3.50.

**GOLDEN CROWN.** (22 inches). Large flowers with pointed petals, color rich yellow, petals finely edged with red; a good bearer, sweet scented.

Each, 5c; per dozen, 50c; per 100. $3.50.

**ISABELLA** (Blushing Bride, Shandon Bells). (18 inches). Large, long, handsome flower silvered white, suffused soft carmine rose towards the edge; center creamy yellow and green.

Each, 5c; per dozen, 50c; per 100. $3.50.

**LA CANDEUR** (Parisian White). (15 inches). Pure white changing to silvery pink; large egg shaped flowers.

May Flowering Tulips

**LA MERVEILLE.** (15 inches). A magnificent variety with very large, sweet scented flowers; color, salmon rose overlaid with orange-red, very effective in beds and borders.

Each, 5c; per dozen, 50c; per 100. $3.50.

**PARISIAN YELLOW** (28 inches). A beautiful, large, pure yellow of exquisite shade and shape; a splendid foundation Tulip.

Each, 5c; per dozen, 50c; per 100. $3.50.

**PICOTEÉ** (Maiden's Blush). (24 inches). White, faintly edged with pink, which suffuses the entire flower as it ages; a beautiful cut flower.

Each, 5c; per dozen, 50c; per 100. $3.50.

**SALMON QUEEN** (Englescomb Pink). (15 inches). Bright rose pink with a salmon shade, large, globular flower.

Each, 5c; per dozen, 50c; per 100. $3.50.

**SWEET NANCY.** A very large, egg-shaped flower, white edged and suffused with rose.

Each, 5c; per dozen, 50c; per 100. $3.50.

**CHOICEST MIXED.** A splendid mixture of all colors, including sweet scented varieties.

Each, 5c; per dozen, 50c; per 100. $3.50.

**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.

**ASA GRAY** Dark carmine, large, finely formed flower.

Each, 5c; per dozen, 50c; per 100. $3.50.

**BARONNE DE LA TONNAGE** (.28 inches). Bright, pink margined blush—base white, tinged blue. A long and beautiful flower.

Each, 5c; per dozen, 50c; per 100. $3.50.

**CLARA BUTT.** A large flower of remarkable beauty; color soft salmon pink, shaded rose.

Each, 5c; per dozen, 50c; per 100. $3.50.

**DREAM.** Beautiful delicate lilac—large globular flowers.

Each, 5c; per dozen, 50c; per 100. $3.50.

**FARNCOMDE SANDERS.** Immense flower of the most brilliant scarlet, one of the best and showiest.

Each, 5c; per dozen, 50c; per 100. $3.50.

**GLOW.** Brilliant, glowing vermilion; blue-black base, zoned white.

Each, 5c; per dozen, 50c; per 100. $3.50.

**GRETCHEN.** (Margaret). A lovely large flower of globular form; outside soft blush; inside blush rose.

Each, 5c; per dozen, 50c; per 100. $3.50.

**MADRAME KEEING.** Soft lilac rose, with a broad margin of blush pink; large flower on a very tall stem; good for forcing.

Each, 5c; per dozen, 50c; per 100. $3.50.

**PAINTED LADY.** Milk white, flushed heliotrope—a good bedding and forcing variety.

Each, 5c; per dozen, 50c; per 100. $3.50.

**PRIDE OF HAARLEM.** Magnificently formed—flower of immense size; color brilliant, deep salmon—rose, shaded with scarlet; electric blue base.

Each, 5c; per dozen, 50c; per 100. $3.50.

**THE SULTAN.** Rich, glossy black maroon; one of the best dark varieties.

Each, 5c; per dozen, 50c; per 100. $3.50.

**WHITE QUEEN.** A large globular flower of pure white, faintly flushed with delicate blush.

Each, 5c; per dozen, 50c; per 100. $3.50.

**FINEST MIXED.** Great variety of all colors and shades.

Each, 5c; per dozen, 50c; per 100. $3.50.
Bed of Single or Early Tulips

This illustration represents a bed eighteen feet in circumference or six feet across, requiring 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.

McCULLOUGH'S "PREMIER" combination of SINGLE TULIPS consists of 200 superfine mixed Single Tulips, embracing a wide range of beautiful colors. Price $5.00; not prepaid.

DOUBLE TULIPS

THIS class of Tulips is one of the most valuable. The earlier varieties are admirably adapted for pot cultures 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 Red Rubrum 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 4.

**BOULE DE NEIGE**, pure white, large flower; extra fine.
Each, 6c; per dozen, 65c; per 100, $4.50.

**COURONNE D'OR**, b8, golden yellow flushed orange, large handsome flower; excellent for growing in pots or beds.
Each, 6c; per dozen, 65c; per 100, $4.50.

**GLORIA SOLIS**, a7, deep crimson, with broad golden margin, very large; . . . Each, 6c; per dozen, 65c; per 100, $4.50.

**IMPERATOR RUBRUM**, a9, rich crimson scarlet, extra fine for forcing. . . . Each, 7c; per dozen, 70c; per 100, $5.00.

**LA CANDEUR**, b8, pure white, extensively grown for bedding.
Each, 6c; per dozen, 65c; per 100, $4.50.

**MURILLO**, b8, blush white, shaded rose, large flowers, fine for forcing and bedding.
Each, 6c; per dozen, 60c; per 100, $4.00.

**RUBRA MAXIMA**, a9, dark crimson scarlet, splendid early forcer and good bedder.
Each, 6c; per dozen, 65c; per 100, $4.50.

**SALVATOR ROSA**, a8, deep rose flushed with bluish; a fine large double flower, suitable for early forcing or bedding.
Each, 8c; per dozen, 75c; per 100, $5.50.

**TEA ROSE**, saffron yellow, changing to rosy apricot; good forcer for growing in pots and pans.
Each, 7c; per dozen, 70c; per 100, $5.00.

**TOURNESOL**, a7, scarlet, margined yellow; one of the best for forcing. . . . Each, 7c; per dozen, 70c; per 100, $5.00.

**CHOICEST MIXED**, from named varieties, extra fine.
Each, 6c; per dozen, 60c; per 100, $4.00.

**FINE MIXED**, including all colors and shades.
Each, 5c; per dozen, 50c; per 100, $3.50.

Persons purchasing Tulips at our counters, or who wish to pay their own express charges, may deduct 5c per dozen when bought by the dozen. Prices per 100 are not prepaid.
Home Collections of Double Tulips

Our "Home Collection No. 1" consists of fifty Double Flowering Tulips carefully selected from named varieties, and will produce handsome double flowers. Price, $2.00; not prepaid.

"Home Collection No. 2" consists of twenty-five double and twenty-five single flowering Tulips selected from named varieties. Price, $1.00; not prepaid.

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

Parrot or Dragon Tulips

VERY large flowers of singular and picturesque forms and brilliant colors; very beautiful and interesting. The petals are curiously fringed or cut. They form showy flower beds or borders, are of endless variety of form and color, stand a long time when cut, and should be grown in every flower garden in quantity.

CONSTANTINOPLE, large red flowers, tipped orange.
Each, 5¢; per dozen, 50¢; per 100, $3.50.
CRAMOISIE BRILLIANT, deep crimson, with large black star-shaped center, extra fine.
Each, 5¢; per dozen, 50¢; per 100, $3.50.
LUTEA MAJOR, large bright yellow, feathered with red and green.
Each, 5¢; per dozen, 50¢; per 100, $3.50.
PERFECTA, striped yellow and scarlet.
Each, 5¢; per dozen, 50¢; per 100, $3.00.
FINEST MIXED COLORS.
Each, 5¢; per dozen, 45¢; per 100, $3.00.

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 blooms commence planting early in October; 6 or 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.
  $0.35 $2.25
BARON BRUNOW, purplish mauve, shading to deep purple at tips.
  35 2.25
KING OF BLUES, light blue, large flower.
  35 2.25
KING OF WHITE, pure white, extra fine.
  35 2.25
LA MAJEUSE, violet striped white, large flower.
  35 2.25
MAMMOTH WHITE, pure white, extra large flower.
  35 2.25
MAMMOTH YELLOW, large golden yellow.
  35 2.25
MONT BLANC, large, pure white, extra.
  35 2.25
NON PLUS ULTRA, light blue, with white border.
  35 2.25
PRINCE ALBERT, dark blue, extra fine.
  35 2.25
SIR WALTER SCOTT, white, striped with violet.
  35 2.25

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
Large White
  .25 .75
Large Yellow
  .25 1.75
Extra Large Yellow
  .30 2.00
Large Blue and Purple
  .25 1.75
Striped and Variegated
  .25 1.75
Mixed All colors
  .25 1.75

Prices on Crocus include postage. Customers may deduct 3¢ per doz., 10¢ per 100 if sent by express at their expense.
Narcissus or Daffodils

BEAUTIFUL class of early blooming flowers, both for out-door blooming and for use as cut flowers in the house. Their delicious fragrance, easy culture and thriftiness, entitle 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.

The Polyanthus varieties for flowering in pots in the house are very satisfactory. They bloom about the first of February in dense clusters, two or three flower stalks to each bulb, while the earliest of all, the Paper White, will come into bloom as early as December.

A cool, natural temperature suits them best. Pot in the Fall, let them root for two or three months in the dark, then remove to the conservatory or sitting room, and water as often as the soil requires moisture.

**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. Each, 6c; per doz., 50c; per 100, $3.75.

**BICOLOR GRANDIS.** Flowers large with broad white perianth, the petals of which are wide and overlapping; trumpet yellow, beautifully imbricated, a flower of great substance and fine for cutting; late flowering and valuable for succession — Each, 6c; per doz., 60c; per 100, $4.00.

**BICOLOR VICTORIA.** Perianth creamy white, trumpet rich yellow, delicately perfumed; a strong grower with massive flowers which stand boldly erect.

Each, 6c; per doz., 60c; per 100, $4.00.

**EMPEROR.** Perianth deep crimson, trumpet large, rich golden yellow; one of the finest Daffodils in cultivation, which should be in every collection; a magnificent flower, much prized for cutting.

Each, 6c; per doz., 60c; per 100, $4.00.

**FIGARO.** Perianth lemon yellow, cup yellow shaded with orange, a large and well-formed flower.

Each, 5c; per doz., 45c; per 100, $3.25.

**GOLDEN SPUR.** Perianth deep yellow, trumpet golden yellow; a charming, highly perfumed flower, flowering early and freely — Each, 6c; per doz., 60c; per 100, $4.00.

**MRS. LANGTRY.** Pure white perianth, broad and overlapping; cup pale primrose changing to white with age; free flowering variety — Each, 5c; per doz., 45c; per 100, $3.25.

**POETICUS.** (Pheasants' Eye or Poet's). Flowers pure white with distinct red crown, sweet scented.

Each 5c; per dozen, 40c; per 100, $3.00.

**POETICUS KING EDWARD VII.** A magnificent, large flowering early variety, with a broad, round white flower with yellow cup edged deep red.

Each, 5c; per dozen, 80c; per 100, $6.00.

**POETICUS ORNATUS.** Large, pure white flowers, saffron cup, tinted with rosy scarlet; very early.

Each, 5c; per dozen, 40c; per 100, $3.00.

**PRINCES.** Large flowers with light yellow perianth and deep yellow trumpet — Each, 6c; per dozen, 60c; per 100, $4.00.

**SIR WATKINS.** Perianth sulphur yellow, cup slightly deeper in color and tinged with orange, flowers very large and free flowering — Each, 5c; per dozen, 75c; per 100, $5.00.

**STELLA.** Perianth white and slightly twisted, yellow crown; flowers large, free blooming and one of the best for naturalizing — Each, 5c; per dozen, 45c; per 100, $3.25.

**TRUMPET MAJOR.** Flowers large and of uniform deep golden yellow; comes into bloom early and is excellent for forcing, bedding or naturalizing.

Each, 6c; per dozen, 60c; per 100, $4.00.

**VON SION SINGLE.** Large flowers of rich yellow color; an excellent sort for forcing, bedding or naturalizing.

Each, 6c; per dozen, 60c; per 100, $4.00

Price per dozen and single bulb includes postage.

Persons purchasing Narcissus at our counters or who wish to pay their own express charges may deduct 5c per dozen from these prices when bought by the dozen. Prices per 100 not prepaid.
Double Narcissus

**ALBA PLENA ODO RATA.** The double Poeticus; flowers pure white, large and very fragrant, one of the finest for all purposes. Each, 5c; per dozen, 45c; per 100, $3.25.

**INCOMPARABLE.** Pale yellow and orange mixed, full double flower, large, varying somewhat in shade like the single variety, from pale citron yellow to deep orange.

Each, 5c; per doz., 45c; per 100, $3.25.

**ORANGE PHOENIX.** Largest of the Double Narcissus, pale creamy white with sulphur, delicate fragrance, fine for cutting or for decorating purposes.

Each, 6c; per doz., 65c; per 100, $4.00.

**VON SION.** The famous "Old Double Yellow Daffodil," rich golden yellow perianth and trumpet; one of the best forcing sorts.

Each, 6c; per doz., 60c; per 100, $4.00.

**VON SION, SELECTED EXTRA LARGE.** True Northern grown Dutch Bulbs. Each, 8c; per doz., 80c; per 100, $6.00.

Price Per Dozen and Single Bulb Includes Postage.

Narcissus Double Von Sion

Polyanthus Narcissus

**B**EAUTIFUL, free flowering, deliciously sweet scented flowers of the easiest culture; suitable for forcing or for growing in water in the same way as the Chinese Sacred Lilies. Their tall spikes of bloom, bear from 6 to 12 flowers each. If planted in open borders, they must be well protected by a covering of litter.

**PAPEK WHITE GRANDIFLORA.** An improved large flowering form of the size, with yellow cup; borne on large heads. Each, 7c; per dozen, 65c; per 100, $5.00.

**MAMMOTH BULBS,** of special value for growing in water.

Each, 6c; per dozen, 50c; per 100, $1.00.

**GRAND MONARQUE,** pure white flowers of largest size, with yellow cup; borne on large heads;

$0.07  $0.65  $5.00

Each Doz. 100

**GRAND SOLEIL D'OR,** rich yellow flower with orange cup

$0.75  $5.00

**GLORIA SOLEIL,** with orange cup;

$0.75  $5.00

**MONT CENIS.** A splendid large flowered variety having broad round over-lapping petals of white, and large rich yellow cup; of compact growth, carrying large clusters of flowers.

$0.75  $5.00

**MIXED POLYANTHUS NARCIS US.**

$0.50  $1.50  $3.25

Persons purchasing Narcissus at our counters or who wish to pay their own express charges may deduct 5c per dozen from these prices when bought by the dozen. Prices per 100 not prepaid.
Jonquils

Excelsior for early blooming. Charming, large, golden and deliciously odorous flowers, freely produced, of the finest effect either in garden, greenhouse or conservatory. May be successfully grown by everyone. Put six in a five inch pot and treat same as Hyacinths.

Campanelle Rugosulus Double Flowering, a double form of the large flowering Campanelle; a novelty.

- $0.05 $0.45 $3.25

Double, fine golden yellow, very fragrant. $0.40 3.00

Campanelle, single, golden yellow, very large and fragrant. $0.50 3.00

Oidorus Rugosulus, large flowering, deep yellow, with leaves. Excessively fragrant and very desirable for forcing or open gardens.

Single, sweet-scented, deep yellow. $0.45 2.25

Chinese Sacred Lily or Oriental Narcissus

All orders should include these bulbs, as they have become most popular through their own merits, flowering in water and gravel in five to six weeks from time of planting. They grow well in pots of soil, but the most popular way of blooming them is as follows:

Put about one inch of sand in a shallow bowl, or similar vessel, about four inches deep; place the bulb on this, and pack it firmly with small pebbles or pieces of rock; then fill it with water to the top of pebbles, and place in a warm sunny window. The bulb will at once commence a rapid growth, and bloom in five or six weeks. Add fresh water as often as necessary. They can be planted at different times, and have a succession of flowers all winter. Flowers often double and single from the same bulb.

Mammoth Bulbs, each 15c. (if by mail, 20c each); by express not prepaid, per dozen, $1.60.

Lily Bowls. For Chinese Sacred Lilies and Polyanthus Narcissus: Imitation cut glass, to hold one bulb, each, 25c; for 3 bulbs, 30c.

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

Calla Lilies (Richardia)

An old favorite, and of easy culture, the only requisite for successful culture are 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.

- Postpaid, each, 30c; per dozen, $3.00.

Extra Large Bulbs. Postpaid, each, 25c; per dozen, $2.50.

Burbank's Golden Hybrid. 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.

- Postpaid, each, 30c; per dozen, $3.00.

Godfrey or Everblooming Calla, short, sturdy growth, very free flowering; medium sized white flowers; excellent for cutting.

- Each, 25c; per dozen, $2.50.

Spotted Leaf Calla (Richardia Alba Maculata). This plant is always ornamental, even when not in flower, the dark green leaves being beautifully spotted with white. In addition to its usefulness as a pot plant it makes a fine thing for planting in the garden in the Summer, being very effective. Postpaid, each, 20c; per dozen, $2.00.

Cyclamen Persicum Giganteum

One of the most beautiful and best adapted plants for Winter blooming in the house or greenhouse; grows readily and flowers freely for a long period; the foliage being handsomely mottled, is very ornamental. The bulbs should be planted in a compost of loam, leafmold, and sand, about half covered, leaving the crown or top of the bulb clear; give a little water and keep in the shade until the leaves are well grown. Then, with plenty of light, air and temperature of about 60 degrees, they may be grown to perfection. Good drainage is essential. After flowering, the pots should be plunged in a shady, sheltered place until October, when they should be repotted.

We have this season secured a fine stock of these bulbs from one of our principal American specialists.

Plant Mixed Varieties. Each, 25c; per dozen, $2.50.
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 prominently out 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 Lilies may be had in bloom from June till 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 for 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 centre with a golden-yellow band. 3 to 4 feet; May-June.

Large Bulbs, 8 to 9 inches, each $2.50; per dozen $25.00.
Extra Large Bulbs, 9 to 11 inches, each $5.00; per dozen $50.00.

CANDIDUM. (_annulata or Madonna Lily). One of the most popular of garden Lilies. 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, each 20 c.; per dozen $1.75; per 100, $25.00.
Extra Large Bulbs, each 25 c.; per dozen, $2.25; per 100, $17.50.

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. Bulbs should be potted in a rich soil, using a five to eight-inch pot, according to the size of bulb, and the pots plunged in a cold frame or kept in a dark, cold place, to get a strong root growth before the top starts; when well rooted they may be brought into gentle heat and forced into bloom.

Large Bulbs, 7 to 9 inches, each 50 c.; per dozen, $1.50; per 100, $25.00.

LONGIFLORUM FORMOSUM. The plants are of healthy, strong growth—about 3 feet high; flowers white, trumped 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, each 50 c.; per dozen $4.50; per 100 $50.00.

LONGIFLORUM GIANTANUM. 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, each 40 c.; per dozen $4.25; per 100 $20.00.

REGALE (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 centre.

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, each 35 c.; per dozen, $3.50; per 100, $25.00.
Extra Large Bulbs, 9 to 11 inches, each 50 c.; per dozen, $5.00; per 100, $10.00.

SPECIOSUM. BUBRUM or ROSEUM. White, suffused and spotted with crimson.
Large Bulbs, 8 to 9 inches, each 35 c.; per dozen, $3.50; per 100, $25.00.
Extra Large Bulbs, 9 to 11 inches, each 50 c.; per dozen, $5.00; per 100, $10.00.

TIGRINUM. “Tiger Lily.” Orange salmon, spotted with black. Large Bulbs, 8 to 9 inches, each 35 c.; per dozen, $3.50; per 100, $25.00.
Extra Large Bulbs, 9 to 11 inches, each 50 c.; per dozen, $5.00; per 100, $10.00.

TIGRINUM FLORA PLENO. “Double Tiger Lily.” This is a plant of stately habit, bearing an immense number of double, bright orange red flowers, spotted with black. Large Bulbs, 8 to 9 inches, each 35 c.; per dozen, $3.50; per 100, $25.00.
Extra Large Bulbs, 9 to 11 inches, each 50 c.; per dozen, $5.00; per 100, $10.00.

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.
**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 readily, 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; the flowers are pure white, with a yellow blotched throat, and are exquisitely fragrant.

**Improved Purity.** A distinct and greatly improved type producing large sprays of pure white flowers of immense size and delicious fragrance. It is very free blooming and of great value for forcing for cut flowers.

<table>
<thead>
<tr>
<th>Bulb Type</th>
<th>Price Details</th>
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<tbody>
<tr>
<td>Large Bulbs</td>
<td>Per dozen, 30c; per 100, $1.75.</td>
</tr>
<tr>
<td>Mammoth Bulbs</td>
<td>Per dozen, 40c; per 100, $2.50.</td>
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<tr>
<td>Monster Bulbs</td>
<td>Per dozen, 50c; per 100, $3.50.</td>
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<tr>
<td>Rainbow</td>
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</tbody>
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We can now supply this long awaited for, beautifully colored Freesia. Limited quantity in following colors—Blue, Lavender, Pink and Yellow.

**Lily of the Valley**

PLANT in a shady place where they will not be disturbed for several years.

**Clumps.** For out of door planting............... Each, 35c; per dozen, $3.50.

Can only be sent by express or freight at purchaser's expense.

**Hyacinth Glasses**

Hyacinth Glasses CAN NOT be sent by mail

**BELGIAN or TALL SHAPE**—Blue, Claret, Crystal and Green Colors. Each, 25c; per dozen $2.75.

**LILY BOWLS.**—For Chinese Sacred Lilies and Polyanthus Narcissus.

Imitation Cut Glass—to hold one Bulb. . . . . . . . . . . . Each, 25c; for 3 Bulbs, 30c.

**PEBBLES.**—For filling Lily Bowls, 10c per quart.

**Mushroom Spawn**

MUSHROOMS can be successfully and profitably grown during the winter and spring months in frames under greenhouse benches, in the open fields, or in cellars or out-houses.

**One pound of Spawn is sufficient for a bed 2 x 6 feet.**

We supply many of the largest commercial growers in the United States and have on hand at all times in the season fresh Spawn of the best manufacture.

**English Milltrack Mushroom Spawn.** Our celebrated English Milltrack brand (made by the best maker in England especially for our trade) has gained an enviable reputation among critical growers for its uniform good quality, and can be thoroughly relied upon to produce a good crop of the best Mushrooms. Commercially, it is more planted than any other Spawn. It comes in pressed bricks weighing about 20 ounces. They are broken into pieces the size of a walnut and put sidewise in the beds 10 to 12 inches apart each way. Prices, by express—customer to pay charges—per brick, 25c; per lb., 20; 10 lbs., $1.75; 100 lbs., $12.00. By mail, 30c per brick, postpaid.

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

**Mushroom Culture.** (Wm. Falconer.) The most practical work on the subject; $1.00.

Special Prices will be given to those who use Mushroom Spawn in quantity.
**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.

**Discount on Packet Flower Seeds**

For 25 Cents select 6 Five-cent, or 3 Ten-cent pkts.
For 50 Cents select Packets to the amount of 65 Cents. For $1.00 select Packets to the amount of $1.30. For $2.00 select Packets to the amount of $2.65. For $3.00 select packets to the amount of $4.00. FULL CULTURAL DIRECTIONS ON EACH PACKET. WE PAY THE POSTAGE.

**ABUTILON** (Chinese Bell Flower.)

**ELEGANT** flowering plants of strong growth and easy cultivation, producing various colored, drooping bell-shaped flowers. Sown indoors any time before April, they will produce plants that will flower outdoors the first season and indoors all Winter. *Half-hardy Perennial.*

Fine Mixed. Of choice varieties and colors. ......... 10c pkt.

**ALYSSUM** (Mad-Wort)

*PRETTY* little plants for beds, vases, baskets, edgings or rock work, blooming profusely all Summer; useful also for Winter flowering. *Hardy Annual.*

**ALYSSUM, Sweet.** Of trailing habit; flowers white. The popular old-fashioned sort. .......... ½ oz., 10c; oz. 25c; 5c pkt.
**ALYSSUM, Little Gem.** Or Carpet of Snow. The plants commence to bloom when quite small, and will flower all Summer until late in the Fall. .......... ½ oz., 5c; oz. 10c; 5c pkt.
**ALYSSUM, Saxatile Compactum.** (Basket of Gold, Gold Tuft, Rockmadwort.) A fine plant for the rockery or border, grows 1 foot high and produces broad flat heads of yellow flowers in May. *Hardy Perennial.* ...... 5c pkt.

**ANTIRRHNINUM (Snapdragon)**

**ANTIRRHNINUM** or Snapdragons are one of the best cut flowers which can readily be grown from seed. For early flowering, sow in fall, protecting the plants with a covering of leaves through the winter. *Half-hardy Perennial.* (See cut.)

**TALL, GIANT FLOWERING**

Flowers nearly double the size of the older sorts.

**Brilliant.** Scarlet, gold and white. .......... 10c pkt.
**Fire King.** Scarlet with orange. .......... 10c pkt.
**Golden King.** Gold yellow flowers. .......... 10c pkt.
**Queen Victoria.** Very beautiful, bearing immense flowers, white shaded cream, with lemon-colored lip. The best white. .......... 10c pkt.
**Venus.** Light rose, white throat. .......... 10c pkt.

**Tall Giant Mixed.** A splendid mixture, containing all the colors; magnificent large individual flowers. .......... ½ oz., 30c; oz. $1.00. 5c 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.

**Silver Pink.** Delicate rose pink, seemingly covered with a silver sheen. .......... 10c pkt.
**Queen of the North.** Grows 1 foot in height, densely covered with large white flowers. Also valuable for pot culture. .......... 10c pkt.
**Daphne.** Soft blush pink. .......... 10c pkt.
**Golden Queen.** Pure yellow, very fine. .......... 10c pkt.
**Firebrand.** Rich deep red. .......... 10c pkt.
**Half-Dwarf Mixed.** Large variety of colors; best for bedding. .......... ½ oz., 20c; 5c pkt.

**AQUILEGIA, OR COLUMBINE**

**CHARMING** hardy plants, bearing in countless numbers through May and June exquisite clear blue, white, rose, yellow, purple and striped blossoms. For planting in permanent borders or edges of shrubbery this old-fashioned favorite is one of the best. They thrive well with ordinary garden culture, but do best in partially shaded nooks. Few hardy plants are so easily grown from seed. Will bloom first season if sown very early. *Hardy Biennials.*

**Coerulea Hybrida, "Rose Queen."** A beautiful variety, producing in great profusion very graceful, large-flowered, long-spurred flowers, shading from light pink to dark rose with white center and yellow anthers. .......... 3 pkts., 25c; 10c pkt.

**McCullough’s Long-Spurred Hybrids.** A beautiful strain, comprising shades and combinations of blue, white, yellow, orange, scarlet and bright rose pink in large flowers with long spurs; the finest to be had. (See cut.)

**Double, all colors, mixed.** .......... ½ oz., 20c; 5c pkt.
**Single, all colors, mixed.** .......... ½ oz., 20c; 5c pkt.

Page 13
FLOWER SEEDS—Continued

CINERARIA

A WELL-KNOWN greenhouse plant, having a range of and brightness of color scarcely surpassed. It may be had in bloom through the greatest part of the year. Greenhouse or Tender Annual.

Hybrid Grandiflora. This strain of Cineraria can not be surpassed, either for size of flowers or beauty of color. Many of the blooms measure 2½ inches in diameter. We have received very flattering reports from florists and private gardeners of their success with our Cineraria seed. .... 25c pkt.

CAMELIA


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 1½ to 2 feet apart each way. Perennial varieties should be sown in the Fall or very early in the Spring, transplanting to the open ground. Hardy Perennial.

Chinese Varieties, Mixed. This mixture contains a great variety of shades, from pure white to gentian-blue. .......... 5c pkt.

Elatum (Bee Larkspur.) Rich deep blue, very free bloomer, 4 feet. .......... 5c pkt.

Formosum. Beautiful spikes of brilliant rich blue flowers with a white center, 2½ feet. .... 5c pkt.

Giant-Flowering Hybrids. These magnificent Hybrids, the grandest of Delphiniums in existence, 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. (See cut.) .... 10c pkt.

DIANTHUS, or Pinks

This splendid class of Pinks should be in all gardens. They have the delightful clove fragrance. Half-hardy Perennial.

Plumarius Fl.P1. (Double Hardy Garden Pinks). Double and semi-double varieties in beautiful colors. .... 10c pkt.

Plumarius Semperflorens. (Everblooming Hardy Garden Pink). Very beautiful, sweet-scented, double, semi-double and single flowers, in great diversity of colors. .... 15c pkt.

DIANTHUS BARBATUS. (See Sweet William.)

DIGITALIS (Foxglove)

Handsome and highly ornamental hardy plants of stately growth. They are now used extensively with good effect for naturalizing in shrubberies, the edge of woods and other half-shady places; 3 to 5 feet. Hardy Biennial.

Finest Mixed .......... 10c pkt.
FLOWER SEEDS—Continued

GAILLARDIA (Blanket Flower)

Grandiflora. The finest strain of Perennial Gaillardias. The flowers are of enormous size, and the colors the most varied. This is one of the hardy perennial plants that no garden should be without. In flower for about three months. 2 feet. (See cut.)

3 pkts., 25c; 10c pkt.

HIBISCUS (Marshmallow)

SHOWY ornamental perennial plants, for mixed beds or shrubbery borders; blooms first year if sown early.

Mallow Marvels. Immense flowers from 8 to 10 inches in diameter, in following colors: fiery crimson, blood red, shell pink and white. Their great beauty surpasses all other perennials in profusion of bloom and brilliancy of color. They come up year after year and are absolutely hardy. *Hardy Perennial*.......................... 10c pkt.

HOLLYHOCK

One of the most majestic of hardy plants, and a clump or line in any garden gives an effect not attainable with any other plant. For planting among shrubbery or forming a background for other flowers it is without an equal. Seed sown any time before mid-summer will produce fine plants for flowering next year. To get results this season it is necessary to get year-old plants. These we offer with other hardy plants under their proper heads. *Hardy Perennial*.

Chater’s Double Pink .......................... 10c pkt.
Chater’s Double Scarlet .......................... 10c pkt.
Chater’s Double White .......................... 10c pkt.
Chater’s Double Yellow .......................... 10c pkt.
Chater’s Prize, Double Mixed. This strain stands unrivaled in richness and delicacy of coloring, with magnificent spikes of very double flowers. (See cut.) 3 pkts., 25c; 10c pkt.

Ever-blooming, Double and semi-double flowers. Colors vary from white to blood-red and black.................. 10c pkt.

Mammoth Fringed Allegheny. Mammoth flowers of loosely arranged fringed petals. The colors vary from the palest shrimp pink to deep red. The plants are of strong growth, sending up spikes 6 to 7 feet high

3 pkts., 25c; 10c pkt.

LATHYRUS (Everlasting, or Hardy Pea)

SHOWY, free-flowering climbers for covering old stumps, fences, etc.; continually in bloom; fine for cutting. *Hardy Perennial*.

Latifolius “White Pearl.” The finest white variety. 10c pkt.

Pink Beauty. Rosy pink.................. 10c pkt.

Mixed. All colors.................. 3/4 oz., 15c; oz., 40c; 5c.

MIGNONETTE (Reseda)

A well-known favorite. No garden is complete without a bed of Mignonette. *Half-hardy Annual.* (See cut.)

Allen’s Defiance. Enormous spikes, with individual florets of immense size, fragrant, excellent for forcing.

Oz., 75c; 10c pkt.

Macbeth. Dwarf pyramidal growth, large spikes; deliciously fragrant; one of the best for forcing.

Oz., 75c; 3 pkts., 25c; 10c pkt.

MYOSOTIS (Forget-me-not)

The Forget-me-nots succeed best in shady, moist situations;

*Half-hardy Perennial.*

Alpestris Victoria. Early flowering, of bushy habit, bearing large, bright, azure-blue flowers.................. 10c pkt.

Palustris. The true Forget-me-not; beautiful blue flowers; 6 inches.

10c pkt.

Palustris Semperflorens. A dwarf Forget-me-not continuing in bloom from early Spring until Autumn; blue flowers.................. 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. As above stated, plants from the Spring-sown seed flower with great freedom throughout the 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.

MASTODON PANSIES


Adonis. Light blue flowers, marked with a yellowish-white face and large dark blotches. 2 pkts., 25c; 15c pkt.

Blue Perfection. The best dark blue flowers of immense size. 15c pkt.

Candidissima. The finest and largest pure white flowers. . . . 2 pkts., 25c; 15c pkt.

King of the Blacks. Flowers of immense size, nearly all jet black and velvety in substance. 2 pkts., 25c; 15c pkt.

Madame Perrett. Colors are dark wine, pink and red, with edges of petals frilled and bordered white. . . . 2 pkts., 25c; 15c pkt.

Meteor. Flowers a beautiful shade of wine red, very free bloomer. . . . . . . . 2 pkts., 25c; 15c pkt.

Panama Pacific. Flowers of immense size, deep yellow. . . . . . . . 2 pkts., 25c; 15c pkt.

Parisian Yellow. Flowers of pure yellow, of grand form and size. . . . . . . . 2 pkts., 25c; 15c pkt.

Vulcano. Flowers a rich, velvety burgundy-red, of immense size; finest red pansy grown. . . . 2 pkts., 25c; 15c pkt.

McCullough's "Premier." This strain is saved from the finest flowers from the best growers of pansies. The plants are compact and of robust growth. Florists and amateur desiring charming "show" flowers should not neglect this strain, as it is the result of many years careful selection and hybridization. $1.25; 25c pkt.

McCullough's Special Mixture. A superior mixture, selected from choice, large flowering strains of English, French and other European growers. 1/4 oz., $1.25; 15c pkt.

Fine Mixture of Bedding Pansies. The old-fashioned Pansies. Our mixture contains all the most showy and distinctly marked varieties. For freedom of bloom none surpass them. 1/4 oz., 25c; 5c pkt.

PETUNIA

For outdoor decoration or house culture few plants equal the Petunia in effectiveness. Easily cultivated, only requiring a good soil and sunny position. Hardy Annual.

Petunia—Double. Grandiflora Mixed. Choicest strains of fine colors and large flowers. . . . . . . . 25c pkt.

Petunia—Single. McCullough's Mammoth. The finest mixture procurable. . . . . . . . 3 pkts., 50c; 20c pkt.

PHLOX DECUSSETATA

A Hardy Herbaceous Perennial and quite distinct from the varieties of Phlox Drummondii, which are annualls. For best results should be sown as soon as frost is out of the ground in Spring or as soon as gathered in the Autumn.

Mixed. All varieties. . . . . . . . 1/4 oz., 60c; 10c pkt.

POPPIES

Hardy Perennial Varieties

Iceland. (Papaver Nudicaule.) One of the most effective and beautiful. They are of graceful, neat habit, with bright green, fern-like foliage, formed in tufts, from which issue slender stalks about 12 inches high, bearing their brilliant flowers in endless profusion; most useful for cutting, for which purpose pick when in bud, for if the seed pods are picked off, they continue in flower the entire season. They remain evergreen throughout the Winter, coming into bloom early the following Spring. Hardy Perennial.

Finest Mixed. All Colors. . . . . . . . 1/4 oz., 25c; 5c pkt.

Orientale (The large Oriental Poppy.) A charming summer-flowering hardy plant, producing numerous leafy stems about 2 1/2 feet high, with large, deep crimson flowers, having a conspicuous black blotch on each petal; exceedingly showy. . . . . . . . 1/4 oz., 25c; 5c pkt.

Orientale Hybrids. Beautiful new hybrids of the Oriental Poppy, producing flowers of immense size; six inches and over in diameter, and of many novel colors, such as salmon, pink, cherry, etc. . . . . . . . 1/4 oz., 50c; 10c pkt.
FLOWER SEEDS—Continued

PRIMULA

THE beautiful Chinese Fringed Primroses and Oboconica and Forbesi varieties are indispensable for winter or spring decorations in the home or conservatory. They are one of the most important winter blooming pot plants. The seed we offer has been saved from the best strains of English and Continental growth.

Chinensis Fimbriata. Finest mixed. All colors. .................. $1.30 per pkt.

Forbesi. (Baby Primrose). Rosey lilac flowers, fine for pots. 3 pks., 25c; 10c pkt.

Malacoides. A fine house plant, somewhat like P. Forbesi, but larger in all its parts; flowers delicate lilac. ............. 15c pkt.

Oboconica Gigantea. Strong vigorous growth with immense heads of large individual blooms. .................. 2 pks., 25c; 15c pkt.

Oboconica Grandiflora Fimbriata. Large flowers with finely fringed and toothed petals; a beautiful pot plant. 2 pks., 25c; 15c pkt.

Hardy Primroses

These are among the best of the early spring-blooming plants. Half-hardy Perennial. Auricula. Finest mixed. Extra choice; saved from a selection of choice colors. .................. 25c; 10c pkt.

Veris. (Polyanthus). Splendid colors; extra fine. 10c pkt.

Vulgaris. True English Primrose; canary yellow, fragrant flowers. 10c pkt.

PYRETHRUM

One of the most valuable of our summer flowers. They flower in May and June, and frequently in August and September the second year. Hardy Perennial. Pyrethrum—Single Hybrids. Large flowers, choicest colors, saved from named varieties. Finest mixed. 3 pks., 25c; 10c pkt.

SCABIOSA

Caucasica. (Blue Bonnet). Especially valuable for cutting, the blooms lasting a long time in water; lilac blue; 3 feet. Hardy Perennial. .................. 10c pkt.

Japanica. A Hardy Perennial variety from Japan, forming bushy plants 2½ feet in height, and bearing on long wiry stems, beautiful, lavender-blue flowers. A fine cut flower. .................. 10c pkt.

SHASTA DAISY

A grand, large-flowering Daisy, hardy, robust growth and produces larger and finer flowers each season, as the plants increase in strength ... 3 pks., 25c; 10c pkt.

STOCKS (Gilliflower)

McCullogh’s Cincinnati Market. A grand variety producing one long sturdy spike closely set with enormous double white flowers. A fine force. 3 pks., 25c; 10c pkt.

Princess Alice. (Cut and Come Again). Pure white, one of the earliest. It throws out numerous side branches, bearing clusters of fragrant blossoms. Excellent for cutting. 3 pks., 25c; 10c pkt.

STOKESIA (Cornflower or Stokes’ Aster)

Cyanea. A beautiful hardy perennial, growing about 24 inches high; each plant producing 20 to 30 handsome lavender-blue, cornflower-like blossoms; in full bloom from July till frost. One of the best hardy border plants. Fine for cutting. 3 pks., 25c; 10c pkt.

VINCA (Madagascar Periwinkle, or Old Maid)

Ornamental, free-blooming plants and one of the most satisfactory flowering bedding plants we have. 2 feet. Tender annual.

Rose. Rose, dark eye. .................. 10c pkt.

Alba Rosea. White, crimson eye. .................. 10c pkt.

Alba Pura. Pure white. .................. 10c pkt.

Mixed. .................. 34 oz. 25c; 5c pkt.

VERBENAS

To have the best results, seeds should be started early in the house and the young plants bedded out by the first of June, and they will make a lavish and showy display of flowers until frost. Half-hardy Annual. Mammoth Defiance. Brilliant scarlet, fine for bedding. .................. 10c pkt.

Mammoth Candissima. Large trusses of pure white flowers. .................. 10c pkt.

Mammoth Blue. Bright blue, in various shades. .................. 10c pkt.

Mammoth Pink. Bright shades of pink. .................. 10c pkt.

Mammoth Mixed. Finest shade of beautiful colors and shades. .................. 3 pks., 25c; 15c pkt.

Gigantea Lucifer. Flowers intense brilliant scarlet with no eye. .................. 10c pkt.

Gigantea Finest Mixed. An improvement on Mammoth, flowers very large; giant florets. Choice mixture of colors. .................. 10c pkt.

SWEET WILLIAM

(Dianthus Barbatus)

We are pleased to see that the merits of this sturdy, old-fashioned flower are being more generally recognized and its cultivation greatly extended. Beautiful, fragrant and easily grown, it is worthy of a place in every garden. The best varieties of Sweet William are of exceedingly beautiful colors, and the large fragrant flowers are borne in trusses of great size. They make a splendid show in the garden or on the border and last well as cut flowers. Seed may be sown at any time from Spring to Midsummer. Seed planted early will bloom in the Fall. It is better to sow seed every year to have young plants, as they flower more freely. Hardy Perennial. Height, 1½ to 2 feet.

Pink Beauty. An exceedingly pretty variety with beautiful salmon pink flowers. .................. 5c pkt.

Holborn Glory. This strain is a large-flowered selection of the Auricula-Eyed section, the most beautiful and admired of all Sweet Williams. The individual flowers and trusses are of extraordinary size and the range of color, all showing a clear, white eye, is superb. 5c pkt.

McCullogh’s Selected Single Mixed. A very choice assortment of all the best single-flowering varieties. 3 oz. 20c; 5c pkt.

Double Red. Very effective, rich deep red variety. 5c pkt.

Double White. Excellent for cut flowers. 5c pkt.

Double Mixed. This mixture you will find of very superior quality; containing all colors and shades. 5c pkt.

Discount on Packet Flower Seeds

For 25 Cents select 6 Fine-cent, or 3 ten-cent pkts.

For 50 Cents select Packets to the amount of 65 Cents.

For $1.00 select Packets to the amount of $1.30.

For $2.00 select Packets to the amount of $2.85.

For $3.00 select Packets to the amount of $4.00.

FULL CULTURAL DIRECTIONS ON EACH PACKET. WE PAY THE POSTAGE.
McCullough's
“Suburban” Lawn Grass Seed

WILL MAKE A BETTER LAWN THAN TURF OR SOD

Is a mixture of the finest Dwarf Evergreen Grasses that grow and flourish during different months of the year so that a rich, deep green, velvet lawn is constantly maintained. Our mixture is the result of several years experimenting, and, as we now offer it, is unequaled. The quantity required for making a new lawn is four bushels (64 lbs.) per acre, or for renovating old lawns, two bushels (32 lbs.) per acre. For a plot 15x20, or 300 square feet, one pound is required for a new lawn, or about one-half pound for renovating.

If it is honestly made, a 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.—The matchless beauty of a well kept lawn instantly commands the attention of all lovers of the beautiful in Nature, because a fine lawn is an unchanging mark of intelligence and taste, to obtain which 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 four bushels (64 lbs.) 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 pat well with the back of a spade. The seed must be well firmed in the soil. When the young grass attains a height of 4 or 5 inches, carefully mow with a sharp scythe. After this, according to the season, it should be mown with a lawn mower every week or ten days.

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 two bushels (32 lbs.) to the acre; roll thoroughly or pat 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; 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 300 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 300 square feet. Roll thoroughly or pat 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:—½ lb., 25c; 1 lb., 40c; 5 lbs., $1.75; ½ bu., (8 lbs.), $2.65; per bu. of 16 lbs., $5.00.

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

Pulverized Sheep Manure and Pure Bone Meal are the Best Fertilizers for Lawns. See Fertilizers.
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 have become "sour" or drainage defective, it is apt to be covered with moss. If such is the case, the moss should first be removed by the use of a sharp rake, then apply Ever Green Lawn Lime to sweeten it, and after another thorough raking, apply Commercial Fertilizer at the rate of not less than 600 pounds per acre, then sow the seed at the rate of four bushels (94 lbs.) per acre, or 1 lb. to each 300 square feet, after which roll thoroughly.

Prices:—½ lb., 30c; 1 lb., 50c; 5 lbs., $2.25; 8 lbs., $3.25; per bushel of 16 lbs., $6.00.

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 as it contains practically the same grasses as our "Suburban" but without recommunity.

Prices: ............................................... ½ lb., 20c; 1 lb., 35c; 5 lbs., $1.50; 8 lbs., $2.15; per bushel of 16 lbs., $1.00.

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 on the being started before very heavy rains.

½ lb., 25c; 1 lb., 40c; 5 lbs., $1.75; 8 lbs., $2.65; per bushel of 16 lbs., $5.00.

Special Mixtures For Golf Links and Putting Greens

View of one of the Putting Greens on the Golf Grounds of the Hyde Park Country Club, Cincinnati, Ohio, where our Putting Green Mixture has produced a "Green" three weeks from the time of sowing the seed.

PUTTING GREEN MIXTURE

HAVING specialized for over three-quarters of a Century in all varieties of Grass Seeds, and having become familiar with the habits and characteristics of all cultivated grasses, we were prepared to develop the Mixture of Grasses herewith offered by us, after making a careful study of the requirements for producing the most substantial turf for Putting Greens.

The numerous testimonials we have received establishes the fact that our Mixture of Grasses will produce the results desired by the owner of any lawn. This mixture has given thorough satisfaction wherever used, and produces a thick, tough, beautiful green turf. The varieties comprising this Mixture of Grasses are all the finest-biaded, low of grasses and most hardy kinds, and will maintain their rich, velvety green color throughout the season. ½ lb., 30c; 1 lb., 50c; 5 lbs., $2.25; 8 lbs., $3.25; per bushel 64 lbs., $18.00.

Quantity of Seed to Sow. One pound of these mixtures will sow 15 x 20 feet, or 300 square feet. Four bushels should be sown to the acre. For renovating use one-half of this quantity.

Pulverized Sheep Manure and Pure Bone Meal are the Best Fertilizers for Lawns. See Fertilizers.

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.

GOLF LINKS MIXTURE

WE have given much attention to grasses for golf links. The mixture of grasses we offer below is composed of such varieties as will thrive here, and are the result of experiments conducted on our grounds, as well as careful observation of several years of the practical results obtained on those golf links, for which we have supplied the seed. We have always on hand all the natural grasses of Europe and America and we are familiar with the habits and merits of each. We shall be glad to prescribe for whatever the requirements of the links may be: for poor lands or rich, high and dry, or low and wet.

Per lb., 35c; 5 lbs., $1.50; 8 lbs., $2.15; per bushel of 13 lbs., $4.00.

Page 19
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 facilities for handling same (at a minimum cost), either in small or large lots, enables us to offer our customers the best possible service, both as to quality and promptness in executing orders.

We have four or five different grades of Grass Seeds, especially of the kinds most desirable, such as the following:

Timothy, Blue Grass, Red Top, Orchard Grass, etc.

We will be pleased to quote lowest market prices on application.

For best results, we advise the use of our highest grades, "XXX*" and "buckeye.

We are the largest buyers in this section of high grade Seeds and will always pay the highest market price. Submit samples and name quantity to offer.

Our prices include delivery to freight or express depots here, purchaser paying transportation charges.

We make no charge for burlap bags for Blue Grass, Red Top in Chaff, Orchard Grass, Perennial Rye, and other light Grass Seeds.

Seamless bags for Clover, Timothy, Fancy Red Top and other heavy Seeds and Seed Grain are 60c each, extra.

The number of pounds to the bushel, in brackets, is the old way of offering grasses, and is mentioned merely for reference.


KENTUCKY BLUE GRASS
(Poa Pratensis)

Also known as June Grass, Green Grass, etc., This is rated as the finest permanent pasture grass. Especially suited to meadows, and rich lands. It is the grass of the famous and fertile lime-stone soils of Kentucky, and is no less a favorite all through the Northern States.

A perfect lawn grass. Sow 30 lbs. to the acre for pasture, 2 bushels (28 lbs.) to the acre for pasture (14 lbs. per bushel.)

Kentucky Blue Grass Seed, Fancy Cleaned
Per lb., 40c; 7 lbs., $2.50; per bushel of 14 lbs. $4.50.

Write for special prices on large quantities and other grades.

NOTE.—We wish to call attention to the fact that Cincinnati is the leading market in the world for Kentucky Blue Grass Seed. We export many carloads annually, the words "McCullough's" and "Kentucky Blue Grass" being very familiar to the principal Seed dealers of the world.

ORCHARD GRASS
(Dactylis Glomerata)

ROUGH Cocksfoot, Perennial, 3 feet. It blossoms about the same time as Red Clover, making it, on that account a desirable mixture with that plant. It is exceedingly palatable to stock of all kinds, and its powers of enduring the cropping of cattle command it as one of the very best pasture grasses. Sow 25 to 35 lbs. to the acre. (14 lbs. per bushel.) Market price.

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, but reaches its highest state of perfection in a moist, rich soil, in which it attains a height of 2 to 2½ feet. Sow, if alone, 40 to 50 lbs. per acre. (14 lbs. per bushel.)

Fancy Red Top Pure Seed.

Weight, about 30 lbs. per bushel. Sow 10 to 12 lbs. per acre. Per lb., 30c; 10 lbs., $1.50; 100 lbs., $21.00.

Choice Red Top Seed in Chaff.

Per lb., 20c; 7 lbs., $1.25; per bu., of 14 lbs., $2.25.

Perennial or English Rye Grass
(Lolium Perenne)

IMPORTED English 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 wary. 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 shade. 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.) Per lb., 25c; 12 lbs., $2.25; per bushel of 24 lbs., $3.50.

Impossible to quote firm prices on "Fancy Grass Seeds" at time of going to press.

Write for special prices on New Crop Seeds.
Hard Fescue (Festuca Duriuscula)

**PERENNIAL.** Height, 12 to 24 inches. Thrives well in dry situations. The herbage is decidedly tender, but the flower heads, when ripe, become hard. Sow, if alone, 30 to 35 lbs. per acre. (12 lbs. per bu.) Per lb., $4.50; 10 lbs., $4.00.

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.) Per lb., $.35; 10 lbs., $3.00; 100 lbs., $13.00.

Red 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.** 40 lbs. to the acre. (24 lbs. per bushel.) Per lb., $.35; 10 lbs., $4.00.

Rhode Island Bent (Agrostis Tenuis)

A fine Grass, chiefly used for pastures and lawns, for which it is one of the best. (12 lbs. per bushel.) Sow 25 to 40 lbs. per acre. Write for price.

Sweet Vernal Grass

For a mixture with pasture Grasses it is valuable on account of its vernal growth, and also for continuing to throw up root foliage until late in the autumn. Its chief merit is its fragrant odor, which the leaves emit when partially dried, thus sweetening hay. Sow 3 to 5 lbs. per acre with other Grasses.

**True Perennial.** (Anthoxanthum Odoratum.) **Market Price.**

**Annual.** (Anthoxanthum Odoratum Pumilum.) Much smaller than the perennial. Price on application.

**McCULLOUGH'S MIXED GRASSES For MEADOWS AND PASTURES**

After years of experimenting we have aided largely in establishing the fact that a thicker and more prolonged growth is produced by a mixture of several varieties than when only one or two are used. 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 Meadow will furnish excellent hay as well as late pasturage.

We are prepared to furnish seeds adapted to all soils and all situations, and for all purposes, composed of Grasses for light, medium or heavy soils; by light soil we mean that which is more or less of a sandy or gravelly nature; the heavy, clay and heavy loams; while the medium is an intermediate between these two. A light, wet soil, with respect to the Grasses suited to it, may be considered same as to the heavy soils, and a dry, heavy soil, more as to light soils.

Our best mixture is made entirely with our choice reclassed seeds, while in our second quality we use the same seeds, but without reclassing, and will be equal to the qualities usually to be had on the market. Our mixtures will all have a uniform weight of 16 pounds to the bushel. Quantity to be used per acre, one and one-half to two bushels, and half this quantity for renovating. In ordering, always state the soil and position on which you wish to use it.

**First Quality Mixtures**

<table>
<thead>
<tr>
<th>For Meadows</th>
<th>For Marly Grounds</th>
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<tbody>
<tr>
<td>Per lb., $35; 8 lbs., $2.40; bu. of 16 lbs., $4.50.</td>
<td>Per lb., $35; 8 lbs., $2.40; bu. of 16 lbs., $4.50.</td>
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<tr>
<td><strong>For Permanent Pasture</strong></td>
<td><strong>For Sandy and Rocky Grounds</strong></td>
</tr>
<tr>
<td>Per lb., $35; 8 lbs., $2.40; bu. of 16 lbs., $4.50.</td>
<td>Per lb., $35; 8 lbs., $2.40; bu. of 16 lbs., $4.50.</td>
</tr>
<tr>
<td><strong>For Pasture and Hay in Orchard</strong></td>
<td><strong>Postage must be added if wanted by mail. See Postal Rates, second page of cover.</strong></td>
</tr>
<tr>
<td>and Other Shady Places</td>
<td></td>
</tr>
<tr>
<td>Per lb., $35; 8 lbs., $2.40; bu. of 16 lbs., $4.50.</td>
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We supply SECOND QUALITY MIXTURES of any of the above at a reduction of 25c per bushel.

We specialize in Grass Seed of all kinds and for every purpose.

For larger quantities—write for Special Prices.
Alfalfa, or Lucerne (Medicago Sativa)

Alfalfa is one of the most profitable crops the dairyman has. It is the high protein hay which contains a large percentage of protein. Alfalfa as grown in the United States yields more than twice the digestible nutrients that Red Clover does and more than three times the digestible protein to the acre. Alfalfa and corn make a perfectly balanced ration. Many farmers are using it in their rotation to take the place of Red Clover. This practice is satisfactory where the soil contains a large supply of lime and organic matter and the seed has been inoculated, or the land has been previously seeded with alfalfa. Alfalfa is best adapted to steep limestone hill sides and gravelly river bottoms where the water can get away from the roots. Will grow on acid soils providing the water is drained off and sufficient lime is added to correct the acidity.

Seeding Alfalfa

The ground should be plowed in late fall and worked in spring once or twice to kill the weeds. If the land is acid it should be limed at the rate of three tons ground limestone to the acre. With a Wheat drill sow 20 to 25 lbs. of best grade non-irrigated inoculated Alfalfa seed with one bushel of 60 day Oats as a nurse crop to the acre any time between April 15th and May 10th. Apply 400 lbs. of a good high grade fertilizer, carrying a small per cent of phosphorus and high per cent of phosphorus to the acre. If land is to be seeded following early potatoes, work ground up with quantities shank down. Sow seed the same as in spring, omitting the Oats as a nurse crop. Where land is being seeded to Alfalfa for the first time it will pay to inoculate the seed with Edwards' Legume Bacteria for Alfalfa. The bacteria will be present and if there is not enough available nitrogen present they will gather the nitrogen from the air and supply your young plants, thus insuring a good stand.

We offer American grown seed raised in the Northwest and West on non-irrigated land. It is free as possible from noxious weeds. (60 lbs. per bushel.) Prices on application.

Montana Alfalfa

A hardy variety from the non-irrigated or dry lands of eastern Montana, where the climate is severe. Under ordinary conditions the seed will serve all purposes where hardiness is required and we advise giving the "Montana" a trial wherever it has been difficult to grow other varieties. Sow in spring or fall at the rate of 15 to 20 lbs. per acre. We have secured a supply of strictly high quality seed. Per lb., 60c; 10 lbs., $5.50; 100 lbs., $50.00.

Price on cheaper grades given on application. For larger quantities—write for special prices.

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 the division of its root system, enabling it to withstand freezing and thawing weather, droughts and other hardships which the common alfalfa will not endure.

We have this season secured a supply of Genuine Seed of this variety, grown by specialists in northern Idaho, where the soil and climatic conditions are most favorable for its development, consequently there can be no comparison between the quality of the seed offered by us and that offered from other sources of supply. When comparing prices kindly bear this fact in mind.

To secure a stand the following requirements are essential—good seed bed, limestone soil, or addition of 3 tons of fine ground limestone per acre, inoculation of seed, and plenty of available plant food. Sow in the spring or fall of year at the rate of 15 to 20 lbs. per acre

Per lb., $1.00; 10 lbs., $9.00.

Crimson, or Scarlet Clover

(Trifolium Incarnatum)

Crimson, Scarlet or Carnation Clover

This Clover is grown in Italy, France, Great Britain and other European countries. Was introduced into this country in 1822 and has proved especially adapted to the light sandy soils of the Eastern and Western parts of the United States. Largely used as a cover crop in orchards.

If seeded in August it makes an early growth in the autumn, passes the winter in a somewhat dormant but green state, makes a very early spring growth and matures its seed and dies before summer. It makes little or no growth in very hot weather. Crimson Clover should be seeded shallow on a moist, reasonably fertile, well drained, well settled seed bed. Inoculation is essential when seeding the first time. Crimson Clover makes a good cover crop to be sowed on potato fields after the potatoes are dug. It makes a good growth in the fall and early spring and may be plowed under for potatoes the following spring.

It may be sowed alone following any farm crop which can be removed from the land by early summer, so that seed can be sown in late summer or early fall. It may also be seeded for hay in mixture with grain, such as Wheat, Rye, Barley or Winter Oats, which are ready to cut for hay at about the same time as the Clover the following spring.

Apply seed at the rate of 12 to 14 lbs. per acre.

Per lb., 25c; 10 lbs., $2.00.
Bokhara or Sweet Clover

Sweet Clover is a biennial plant, which closely resembles Alfalfa. It requires practically the same soil treatment as Alfalfa, but will grow under a wider variation of soil conditions than Alfalfa.

Three things are essential—lime, inoculation, and scarified seed. If the land has raised Alfalfa previously, then the addition of lime may not be necessary. Inoculation with Edwards' Legume Bacteria tends to insure a stand, by securing nitrogen for the young plant to utilize. The young plant at a time when it needs it the most. Scarified seed is seed that has been so treated as to scratch or crack the hard coating and make it easy for moisture to penetrate and hasten germination, thus insuring a stand.

When Sweet Clover is inoculated it gathers nitrogen from the air and stores it up in the soil for the use of future crops.

Yellow Flowered (Melilotus Officinalis). Is a biennial producing seed the second year and will reseed itself if left undisturbed. It is the variety which is best adapted for hay, as it blossoms three weeks earlier than the White Sweet Clover, has a firmer stem and does not grow so tall. It makes excellent pasture where 10 to 15 lbs. of seed is mixed with 6 lbs. of Timothy sowed in Wheat or Rye, then pastured in the fall. The following spring the Sweet Clover will be three weeks earlier than any other grass, thus making a fine early pasture.

When sowing unhusked seed in the fall with Wheat for hay, apply 10 to 15 lbs. per acre. Do not sow unhusked seed in the spring and expect results the same year.

Yellow Flowered, Unhulled Seed. Per lb., 30c; 10 lbs., $2.75.

Yellow Flowered, Hulled Seed, Scarified. Per lb., 40c; 10 lbs., $3.75.

White Flowered. (Melilotus Alba.) Is a biennial producing seed the second year and will reseed itself if left undisturbed.

The White Sweet Clover is much coarser than the yellow, and is especially well adapted for soiling purposes. Many farmers are taking advantage of this crop in the bottoms where annual flooding prevents the use of Red Clover in a crop rotation. Corn being planted year after year with an occasional crop of wheat. Scarified seed which has been inoculated is sown at the rate of 15 lbs. per acre in the corn at the last cultivation. This makes a growth of 10 to 15 inches by the time the corn is husked off of the stalk in the fall, and is plowed under late the following spring for corn.

It is being widely used where farmers wish to shorten their crop rotation and secure a crop of hay. To do this sow scarified seed which has been inoculated with Edwards' Legume Bacteria in the Wheat, from the middle of April to the 1st of May, at the rate of 15 lbs. per acre. The following September as much as one ton of hay per acre may be cut from this land and the next May the second growth may be turned under for corn. The Sweet Clover being young and tender, roots early and forms a much which holds the water, thus making ideal conditions for a good corn crop. Mr. R. E. Simonds, of Miamitown, Ohio, won the Ohio State Championship in the 10 acre corn grown contest in 1917 with a yield of 102 bushels of corn per acre by practising this method. Farmers can increase their yield of corn from one-third to one-half by using Sweet Clover as a green manure crop.

White Flowered, Unhulled Seed. Per lb., 30c; 10 lbs., $2.75.

White Flowered, Hulled Seed, Scarified. Per lb., 40c; 10 lbs., $4.00

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

NOTE: We have installed scarifying machinery and our Hullsed Sweet Clover is all scarified, which increases the germination to 40 to 50 per cent.

Alsike or Swedish Clover (Trifolium Hybridx)

This variety is perennial and on account of its fibrous root system does not winter-kill. Will grow well on poor soil, and will do better on moist land than any other variety of Clover. It is a valuable acquisition to the forage plants of this country and is highly esteemed as pasture for bees. Sow 6 to 8 lbs. per acre. Market Price.

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. Is very hardy, spreads rapidly, acts as a binder, and when mixed with other grasses for lawn purposes is very desirable. Is also excellent for bee food. Sow 6 to 8 lbs. per acre. Per lb., 80c; 10 lbs., $7.00.

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, we will send the best. Market Price.

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. Good stands have been secured by simply sowing the seed broadcast during March, April or May at the rate of 10 to 12 lbs. per acre. This Clover is a half-hardy annual without any objectionable root system. Sow 15 to 20 lbs. per acre. (25 lbs. per bushel.) Per lb., 45c; 10 lbs., $4.00.

Red Clover—Sapling or Mammoth

(Trifolium Pratense Perenne)

Also called English Clover, Cow Grass, Perennial Red Clover. Sow 10 to 12 lbs. per acre. Market Price.

White or Dutch Clover
MISCELLANEOUS FARM SEEDS

The prices quoted are subject to market fluctuations. When customers are in need of large quantities, we will be pleased to submit samples and quote, on application, the lowest prices that the market will justify at the time. Please state quantities wanted when writing for prices.

SOWING RAPE

A FORAGE plant of highest value. It can be sown in April for an early crop, and for fall crop in July, August and September, and still later further South. In a few weeks from the time of sowing, sheep, hogs or cattle can be turned on it. Under favorable conditions Rape is ready for pasturing sheep or cattle within six weeks from time of sowing, and on an average one acre will carry 12 to 15 sheep six weeks to two months. When on the Rape they should at all times have access to salt. Rape has a high feeding value. It is excellent for fattening sheep and swine, produces an abundant flow of milk in cows, and is the ideal pasture for weanling lambs. Its value as sheep pasture has been demonstrated in every State in the Union, and it is recommended by authorities everywhere as of superior value for hogs, furnishing the finest pasturage, or can be fed after cutting. Rape has strong-growing roots which penetrate the ground for a considerable depth. A rich, loamy soil is preferable, but it does well on sandy or stiff clays, and is excellent for sowing after a crop of wheat has been taken off, or when corn has been worked the last time. The plant is a rank grower and should have heavy manuring. Sow the seed by the end of March or in April. Cold, fine weather is required to germinate the seed when it is most needed. It does well sown with oats. After oats are cut, the Rape grows rapidly. If the soil is rich and clean, sow broadcast; if not so clean, sow in drills and cultivate as for corn. When sown broadcast, use five to six pounds, and if in drills, two to three pounds to the acre.

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

SPELTZ OR EMMER

THIS grain resembles wheat but is a much larger yielder, producing frequently as high as 80 bushels of grain per acre, and that on the poorest land. The hay, if cut green, is desirable for horse or cattle feed, while the straw after threshing, is equal to the best wheat straw. The heads are somewhat similar to two-rowed barley. For fattening cattle, poultry, horses, sheep, pigs, etc., it is claimed to be about the same other grains. Cultivation similar to wheat or oats. Sow at the rate of 50 to 60 lbs. per acre. Market Price.

Choice Seed Oats

Broadcast 2 to 3 bushels to the acre.

Winter Turf. Perfectly hardy in the Southern and Middle States. Yields on good land, from 50 to 70 bushels to the acre of fine, heavy grain, weighing from 35 to 50 pounds to the measured bushel. Market Price.

SEED WHEAT AND SEED RYE

We are this season offering the following varieties of Seed Wheat. For detailed descriptions and cultural directions send for our special circular.

Poole Wheat

Is a beld smooth head, color of grain and chaff red, average height of plants 44 inches, straw stiff and stands up well on practically all kinds of soil. It is one of the best yielding and budling wheats tested. It ripens in Southern Ohio average seasons about the 30th of June. Seed at the rate of two bushels per acre.

Portage Wheat

Is a pure line selection from the Poole. It has a smooth head, red chaff, and red kernel. It has given the highest yield at an average of 8 years of 28 varieties tested at the Ohio Experiment Station. Ripens in Southern Ohio about the 1st of July. Seed at the rate of two bushels per acre.

Fultz Wheat

Is a beld smooth wheat, red grain, white chaff, average height, 43 inches. Straw stiff and stands up well. It is well adapted to a wide variety of soil conditions and especially well adapted to level black land. Ripens in Southern Ohio average seasons, June 29th. Seed at the rate of two bushels per acre.

Gladden Wheat

Is a pure line selection of the Gypsy wheat. It has a bearded head, smooth, grain red, chaff white. Stands up well and produces a good crop of straw. It is a vigorous grower and stands the freezing and thawing of the soils of Southern Ohio and does well on clay soils. Seed at the rate of 6 to 8 pecks per acre.

Rosen Rye

This variety often produces as high as forty to forty-five bushels per acre, while 20 bushels per acre is a low yield. The average yield for common Rye is 15 bushels per acre.

Rosen Rye produces a strong, vigorous straw; the grain is large, plump, heavy and of good color. Owing to its vigorous lodging property, less seed is required, three to four pecks per acre proving sufficient.

Write for special prices on Seed Wheat, Seed Rye and Hairy Vetch.
INCREASE YOUR YIELD OF ALFALFA, CLOVERS, VETCH, COW PEAS, SOY BEANS and other Legumes by inoculating your seed with

Edwards' Legume Bacteria

All the requirements for successful inoculation are met in the cultures of EDWARDS' LEGUME BACTERIA. These cultures are manufactured by the method originated and successfully followed for ten years at the Ontario Agricultural College, and the stock cultures were secured from the Bacteriological Laboratory of that institution. There fore, be no question as to their efficiency. They are prepared under the personal supervision of S. F. Edwards, formerly instructor in Bacteriology at the Michigan Agricultural College, Instructor in Bacteriology in the College of Medicine at the University of Michigan, and nine and one-half years Professor of Bacteriology at the Ontario Agricultural College. The cultures are made according to the best principles of the science of Bacteriology, and especial attention is given to keeping up the vigor and nitrogen-gathering power of the bacteria.

Cultures are made and kept in stock for legume crops as follows: Alfalfa, Sweet Clover, Red Clover, Alsike Clover, Crimson Clover, White Dutch Clover, Field or Garden Beans, Field or Cow Peas, Field or Sweet Peas, Vetches, Cowpeas. Of this list the same culture can be used for either Alfalfa or Sweet Clover, and likewise, the same culture can be used for Red, Alsike, Crimson and Dutch Clovers. All the other crops require a different culture for each as named. The entire culture may be used on less than the amount of seed for which it is made without harm to the seed. The cultures are good for six months after leaving the laboratory. The cultures are sent by mail or express prepaid, with full directions for use.

EDWARDS' LEGUME BACTERIA cultures are made in three sizes:

To inoculate

30 pounds of seed

60 pounds of seed

300 pounds of seed

Trial package for Beans, Garden Peas and Sweet Peas, 30 cents each.

In ordering, be sure to name crop to be inoculated.

These prices mean a very low cost per acre, the exact amount depending on the amount of seed sown. The cost is less than that of feeding the soil from a distance, or even to haul it from a neighbor's field for soil inoculation, and the labor is much less, as seed for several acres can be inoculated in a few minutes with the pure cultures.

McCullough's High Grade Fertilizers

All Fertilizers Delivered Free on Board Cincinnati. Prices Subject to Change Without Notice.

NITRATE OF SODA

CONTAINS about 16% nitrogen, equal to 20% ammonia. We recommend it as the clearest and best form in which to apply nitrogen to plants.

1 lb. 15c; 2 lbs. 25c; 10 lbs. $1.10; 25 lbs. $2.00; 100 lbs. $7.00.

HALF AND HALF

Is 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, 12%; 5 lbs. 30c; 10 lbs. 50c; 25 lbs. $1.10; 50 lbs. $2.00; per bag of 125 lbs. $3.75.

ACID PHOSPHATE 16%

Some soils contain a large percentage of Nitrogen and poor Potash, but little Phosphoric Acid. This must be supplied by the application of 16% Acid Phosphate. 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. $1.75; per bag of 125 lbs. $3.00.

DRIED BLOOD MEAL

This is a splendid fertilizer for roses, carnations, chrysanthemums, etc., as well as for pot plants.

1 lb. 20c; 2 lbs. 35c; 5 lbs. $3.15; 10 lbs. $5.95; 100 lbs. $11.10.

LAND PLASTER

If applied as a top dressing for grass or clover crops in the spring, it greatly increases the growth and yield of same. 100 lbs. bag $3.75. 100 lbs. bag $3.75. 100 lbs. bag $3.75.

HYDRATED LIME

3 lb. package, 10c; per bag of 50 lbs. $1.00.

SULPHATE OF AMMONIA

CONTAINS approximately 25% of ammonia and comes in fine crystals which is very nice to apply broadcast. Owing to its firmness and keeping qualities it is preferred by some gardeners and fruit growers to Nitr of Acid. Owing to the fact that it is made of actual ammonia instead of Nitrate of Soda, the use should apply four pounds of Sulphate of Ammonia where he uses 5 lbs. of Nitrate of Acid. 1 lbs. 15c; 2 lbs. 25c; 10 lbs. 1.15; 25 lbs. $2.05; 100 lbs. $9.00.

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Hardy Herbaceous Perennial Plants

FOR FALL PLANTING

THE steadily increasing demand for hardy plants has induced us to give them more attention and to increase our stock considerably. For such of our customers who are not acquainted with the possibilities of the garden, 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 first frost leaves the ground until late in Autumn.

Cannot accept orders for Hardy Perennial Plants totaling less than one dollar.

ACHILLEA (Sneezewort)

Boule De Neige. (Ball of Snow.) An improved variety, bearing pure white flowers of perfect form all Summer. Fine for cut flowers. Each, 20c; per dozen, $2.00.

Eupatorium. (Parker’s variety.) Produces brilliant yellow heads of flowers all Summer, with neat, finely-cut foliage. Each, 20c; per dozen, $2.50.

AGROSTEMMA (Rose Campion)

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

Alyssum (Madwort)

Saxatile Compactum. (Basket of Gold, Gold Tuft, Rockmadwort.) A fine plant for the rockery or border, grows 1 foot high and produces broad flat heads of yellow flowers in May. Each, 20c; per dozen, $2.00.

ANEMONE (Daisy)

Dropmore Variety. Remarkable for its free and continual flowering all Summer and the beautiful gentian-blue of its flowers; grows about five feet high. Each, 20c; per dozen, $2.00.

ANTHEMIS TINCTORIA

The hardy Marguerites are among the most satisfactory summer-flowering perennials, growing about 15 inches. Large golden yellow flowers. Each, 20c; per dozen, $2.50.

ASCLEPIAS (Butterfly Weed)

Showy native plants about 2 ½ feet high, blooming during July and August.

ASTERS (Michaelmas Daisies or Starworts)

These are among the showiest of our late flowering hardy plants, giving a wealth of bloom at a season when most other hardy flowers are past, and for the best effect should be planted in masses of one color. The hardy sorts are entirely distinct from Annual Asters, being smaller in bloom but produced in greater quantity.

BEAUTY OF COLWALL. A grand semi-double flowering type of a beautiful lavender shade; height about four feet; September. Each, 25c; per dozen, $2.50.

NOVI-BELGI. OXLANNA. The plant is of strong vigorous habit, over 5 feet high, with pyramidal shaped flower stems filled with light lavender-blue flowers, each 1 ½ inches or more in diameter. August to October. Each, 25c; per dozen, $2.50.

NOVI-BELGI. St. Ewig. Handsome flowers of cherry pink. September and October. Each, 25c; per dozen, $2.50.

NOVAO-ANGELICA. A tall growing species, bearing clear purple flowers; September. Each, 20c; per dozen, $2.00.

NOVAO-ANGELICA ROSEA. Similar to the preceding, bearing rose-colored flowers; September. Each, 20c; per dozen, $2.00.

NOVAO-ANGELICA ALBIA. Flowers white. Each, 20c; per dozen, $2.00.

SNOWFLAKE. Grows to nearly two feet. Flowers pure white. September. Each, 20c; per dozen, $2.00.

TRINERVIS. Plant grows three and one-half feet high and produces deep violet-mauve flowers from September to November. Each, 25c; per dozen, $3.50.

BAPTISTIA (False Indigo)

Australis. Grows about 2 feet high with dark green, deeply-cut foliage and spikes of dark blue flowers in June. Each, 20c; per dozen, $2.50.

We do not guarantee or replace plants, shrubs or trees at prices quoted.
HARDY HERBACEOUS PLANTS—Continued

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.

Each, 20c; per dozen, $2.00.

BOLTONIA (False Chamomile)

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

Asteroides. Pure white; five to six feet... Each, 20c; per dozen, $2.00.

Latisquama. Pink, tinted lavender, six feet... Each, 20c; per dozen, $2.00.

CAMpanulas (Bell Flower)

BELL-SHAPED flowers, well known and easily grown, of much variety of form, some being tall and suitable for planting in borders or among shrubbery, while others are dwarf and suitable for edging, rockwork, etc.

Carpatica. (Carpathian Hare Bell.) Ideal for border or rockery planting, being about eight inches high; flowers from June till frost. Blue and white, each separate... Each, 20c; per dozen, $2.00.

Glomerata Dahurica. Large heads of purple flowers, fine for the border, 2 feet... Each, 20c; per dozen, $2.00.

Persicifolia. (Peach Bells.) Blue flowers during June and July; 2 feet.

Each, 25c; per dozen, $2.50.

Rotundifolia. (Scotch Hare Bells.) Very graceful drooping blue bells, rising from compact tuft of foliage; fine for rockery. June to August.

Each, 20c; per dozen, $2.00.

CERASTIUM (Snow in Summer)

Tomentosum. Suitable for the rockery or for covering dry, sunny spots. Low growing plant with silvery foliage and white flowers in June.

Each, 20c; per dozen, $2.00.

CHELONE (Shell Flower)

SCATTELY plants growing about two feet high and bearing numerous spikes of large flower-heads during the Summer and Fall.

Lyoni. Showy, purplish-red flowers... Each, 25c; per dozen, $2.50.

COREOPSIS

Lanceolata Grandiflora. A beautiful hardy border plant; grows eighteen inches high, and produces its bright golden yellow flowers in great profusion the entire season... Each, 20c; per dozen, $2.00.

Rosea. Small pink flowers, blooming in August and September. Foliage dark green, finely divided. Useful in border and rockery; 1 foot.

Each, 25c; per dozen, $2.50.

DELPHINIUMS (Perennial Larkspur)

THESE are deservedly one of the most popular subjects in the hardy border, bold, attractive, and highly possessing plants of easiest culture, and perfectly hardy. They will 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. (See cut.)

Belladonna Hybrids. The finest and most continuous blooming of all. The clear turquoise-blue flowers are not surpassed by any; 3 feet.

Each, 20c; per ^ dozen, $2.00.

Belladonna Semi-plena. Clear blue flowers, overlaid with pink. 3 feet... Each, 25c; per dozen, $2.50.

Formosum. Dark blue, white center, spikes three to four feet tall, vigorous; free blooming. 3 feet.

Each, 20c; per dozen, $2.00.

Giant Hybrids. Unquestionably the finest strain of mixed hybrids ever offered. The original stock came from Europe, and consisted of the best-known varieties. The plants are of strong, vigorous habit, with large flowers on spikes two feet and over long, the majority growing in the lighter shades of blue.

Each, 20c; per dozen, $2.00.

Chinensis. A pretty dwarf species, with fine feathery foliage and soft gentian-blue flowers in open panicles... Each, 25c; per dozen, $2.50.

Chinensis Alba. A pure white form of the above.

Each, 25c; per dozen, $2.50.

EUPHORBIA (Milkwort)

Corollata. (Flowering Spurge.) Grows about 18 inches high, bearing from June to August umbels of pure white flowers with a small green eye; desirable for cutting.

Each, 25c; per dozen, $2.50.

Cyparissias. Grows 10 to 12 inches high with Cypress-like foliage and bears showy trusses of bright yellow flower-like bracts during May; very effective even when out of bloom... Each, 25c; per dozen, $2.50.

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.

Coerulea. (Blue Day Lily.) Blue flowers and broad green leaves... Each, 20c; per dozen, $2.00.

Glaucia. Purplish-white flowers with immense foliage. Each, 20c; per dozen, $2.50.

Subcordata Grandiflora Alba. (White Day Lily, August Lily.) Pure white, lily-shaped, fragrant flowers.

Each, 20c; per dozen, $2.00.

Thomas Hogg. Leaves are larger than Subcordata Alba and variegated around edges, with lavender flowers.

Each, 20c; per dozen, $2.50.

Undulata Variegata. Foliage green, striped with white.

Each, 20c; per dozen, $2.00.

We do not guarantee or replace plants, shrubs or trees at prices quoted.
HARDY HERBACEOUS PLANTS—Continued

**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.)

Each, 20c; per dozen, $2.00.

**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. Each, 20c; per dozen, $2.00.

Repens. An elegant trailing plant for the rockery, with clouds of small white flowers in July and August.

Each, 25c; per dozen, $2.50.

**Helianthus** (Hardy Sunflower)

The perennial Sunflower is very effective either in borders, among shrubbery, or as clumps on the lawn, etc. (See cut.)

Maximiliana. Flowers in long, graceful sprays during October, when all others have finished flowering; five to seven feet. Each, 20c; per dozen, $2.00.

Mollis. Large, single lemon-yellow flowers, with downy white foliage; blooms in August and September; four feet. Each, 20c; per dozen, $2.00.

Sparsifolius. A most gracefully formed single variety of large size, of a deep yellow color, on long strong stalks, splendid for cutting; August to September; six to eight feet. Each, 20c; per dozen, $2.00.

**Helenium** (Sneezewort)

These are desirable border plants, succeeding in any soil in a sunny location; useful for cutting.

Autumnale Superbum. Flowers are deeper yellow, separate and distinct from Riverton Beauty.

Each, 20c; per dozen, $2.00.

Riverton Beauty. Lemon-yellow, with large purplish-black cone. Each, 20c; per dozen, $2.00.

Riverton Gem. Old gold changing to wall-flower red. Each, 20c; per dozen, $2.00.

**Heliospis** (Orange Sunflower)

Pitcheriana. Very similar to a small sunflower, but blooming earlier; deep golden yellow; all Summer, "June till frost; three feet high.

Each, 20c; per dozen, $2.00.

Scabra Zinniae flora. A new double flowering form of the Orange Sunflower, somewhat resembling a Zinnia in shape. Fine for cutting, July and August; two feet. Each, 25c; per dozen, $2.50.

**Hemerocallis** (Yellow Day Lily)

Lilypie plants, which flower in greatest profusion during the Summer.

Aurantiaca Major. Grows two to three feet high and produces deep, orange-colored flowers during June and July. Each, 20c; per dozen, $2.00.

Flava. The best known variety, very fragrant, deep lemon-yellow flowers in June and July. Each, 20c; per dozen, $2.00.

Luteola. Blooms during July and August; flowers a pleasing shade of lemon-yellow. Each, 20c; per dozen, $2.00.

Sovereign. Cup-shaped flowers; inside of petals light yellow, outside brown; blooms during July and August. Each, 20c; per dozen, $2.00.

Thunbergii. Bears rich, buttercup-yellow, funnel-shaped flowers in July and August. Each, 20c; per dozen, $2.00.

**Heuchera** (Alum Root)

Foliage remains close to the ground. During July and August, the graceful thin flower spikes, 2 feet high, appear in profusion.

Sanguinea. Bright scarlet. Each, 20c; per dozen, $2.00.

**Hibiscus** (Mallow)

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

Mallow Marvels, Giant-flowering. Flowers of enormous size, frequently 10 to 12 inches in diameter. Plants grow from 5 to 8 feet high, and bloom from early in July until late in Autumn. We offer three distinct colors—red, pink and white—strong roots. One each of the 3 colors for $1.00. Each, 35c; per dozen, $3.50.

Crimson Eye. Blooms of purest white with deep crimson eye; flowering in July; 4 feet. Each, 20c; per dozen, $2.00.

We do not guarantee or replace plants, shrubs or trees at prices quoted.
HARDY HERBACEOUS 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. (See cut.) We offer the following list of named sorts:

Azuma Yuki, No. 81. Petals rosy purple with heavy white veins, standards brownish-red, striped with white, yellow star center.

Banrai Nami, No. 1. Petals pale pinkish white with white standards and yellow center.

Furomon, No. 28. Petals bright pink, shading to creamy white, with heavy purple veins, standards purple, yellow center.

Kimono-Medmool, No. 97. Soft lilac, with dark purple veins and purple standards.

Krishi-Ikari, No. 85. Petals brownish-red with light brown veins, center yellow, standards scarlet, striped with white.

Kyo-Dai-Yama, No. 59. Petals indigo, standards greenish blue, striped with white.

Okino-Kamone, No. 65. Petals recurved and creamy white, standards pure white.

Sassa No Koe, No. 34. Petals recurved and creamy white, veined pink and white, orange center, standards pure white, spotted deep pink.

Yezo-Nishiki, No. 16. Petals lavender, heavily spotted with dark purple, center yellow, standards lavender, bordered with purple.

Yodo No Kuruma, No. 8. Petals bright pink, shading to dark pink at center and heavily veined, standards purple, marbled with white.

No. 66. Purple flowers with white spots; earliest to bloom.

Above named varieties, each 30c; per dozen, $3.00. By mail, each, 35c; per dozen, $3.50. Finest Mixed (Our selection). Each, 20c; per dozen, $2.00. By mail, each, 25c; per dozen, $2.50. We can furnish large clumps of most of the above varieties from $1.00 to $1.50 each.

LIATRIS (Blazing Star, or Gay Feather)

Most showy and attractive native plants, succeeding anywhere and producing their large spikes of flowers from July to September.

Pycnostachya. Spikes of light, rosy-purple flowers; five feet

Spicata. Deep purple flowers, in spikes two to three feet high

Each, 20c; per dozen, $2.00.

IRIS PALLIDA Dalmatica

This variety is of strong, vigorous habit, growing in good soil 4 feet high, with exceptionally large, fragrant flowers, standards lavender, falls lavender, shaded blue; exquisite in every way and fine for massing.

Each, 25c; per dozen, $2.50.

IRIS SIBERICA

Orientalis. (Yale Blue.) A slender, graceful, tall-growing iris, with flowers quite similar to those of the Liberty Iris, but smaller and much more numerous. The plants form large, strong, compact clumps, and bloom so freely that the deep blue flowers give almost a soil color effect

Each, 20c; per dozen, $2.00.

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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...Each, 25c; per dozen, $2.50.

LUPINUS POLYPHYLLOS (Lupine)  
Effective plants, producing large spikes of flowers. Will thrive in any good garden soil; grow about three feet high and bloom latter part of May and early June. Polyphyllus. Clear blue. Each, 20c; per dozen, $2.00. Albus. A white variety of above. Each, 25c; dozen, $2.50. Moorheimi. Its clean, bold growth always attracts attention. The spikes of flowers are frequently over a foot long, in color superior, being a combination of light and dark shades of pink, without a trace of magenta. Each, 20c; per dozen, $2.50.

LYCHNIS  
Arkwrighti. Produces large circular flowers in color through crimson, scarlet, orange, salmon and intermediate shades; blooms all Summer and grows about 2½ feet high...Each, 50c; per dozen, $6.00. Chalcedonica. A desirable plant, grows two to three feet high; flowers brilliant orange scarlet. Each, 20c; per dozen, $2.00. Viscaria Splendens. (Catch Fly.) Is a brightly colored plant, the flowers being produced in dense spikes. Each, 20c; per dozen, $2.00.

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. Each, 20c; per dozen, $2.00.

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; one of the most interesting spring flowers, blooming in May and June...Each, 20c; per dozen, $2.00.

MONARDA (Bergamot)  
Showy plants, growing from two to three feet high, succeeding in any soil or position, with aromatic foliage, producing their bright flowers during July and August. Didyma. (Oswego Tea.) Flowers bright scarlet. Each, 20c; per dozen, $2.00.
HARDY HERBACEOUS PLANTS—Continued

PHLOX 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. An excellent plant for the rockery, the border, and invaluable for carpeting the ground, or covering graves.
Alba. Pure white. Each, 20c; per dozen, $2.00.
Rosea. Bright rose. Each, 20c; per dozen, $2.00.

PHYSOSTEGIA (False Dragon-Head)

One of the most beautiful of our mid-season flowering Perennials, forming dense bushes three to four feet high, bearing spikes of delicate tubular flowers not unlike a giant mimulus. Each, 20c; per dozen, $2.00.
Virginica. Bright, soft pink. Each, 20c; per dozen, $2.00.
Virginica Alba. Pure white. Each, 20c; per dozen, $2.00.

ORIENTAL POPPIES
(Papaver Orientale)

These are the regal representatives of this popular genus, far surpassing in splendor of bloom all the annual and biennial kinds, and for a gorgeous display of rich and brilliant coloring, nothing rivals them. Each, 20c; per dozen, $2.00.
Diana. Beautiful salmon flowers. Each, 20c; per dozen, $2.00.
Goliath. Flowers scarlet, of enormous size. Each, 20c; per dozen, $2.00.
Mahogany. Dark red, shading to crimson maroon. Each, 20c; per dozen, $2.00.
Princess Victoria Louise. Soft lilac rose. Each, 20c; per dozen, $2.00.
Proserpine. Dark lilac, with large black blotch. Each, 20c; per dozen, $2.00.
Royal Scarlet. Scarlet flowers, with black center. Each, 20c; per dozen, $2.00.
Salmon Queen. Soft, salmon-scarlet, very distinct. Each, 20c; per dozen, $2.00.
Witttenbergia. Large scarlet flowers. Each, 20c; per dozen, $2.00.

PARLAYS double the money

HARDY GARDEN PINKS

These old-fashioned favorites are absolutely perfect as an edging for the hardy border; as cut flowers they are indispensable.
Her Majesty. A pleasing plant growing to about one foot and bearing large, snowy white flowers. Each, 20c; per dozen, $2.00.
White Reserve. A pure white variety, possessing a spicy fragrance. Ever-blooming. Each, 20c; per dozen, $2.00.
Mixed Hardy Garden Pinks. Seedlings grown from a very select strain, which should produce a good percentage of double flowers. Each, 20c; per dozen, $2.00.

PYRETHRUM

The large daisy-like blooms appear as early as June and continue in abundance continuously until September. They delight in a rich soil with a natural drainage. They thrive best in the full sunlight. As the flowers die, the old stems should be cut off to encourage new blooms.
Hybridum F. P. Pl. Double flowering, mixed. Each, 20c; per dozen, $2.00.
Hybridum. Single flowering, mixed. Each, 20c; per dozen, $2.00.
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. Each, 20c; per dozen, $2.00.

PEONIA OF ORIGINALS

This type is the real old-fashioned "Peony," and comes into bloom from ten to twelve weeks ahead of the named sorts. All are strong growers, with large, full, double, fragrant flowers.
Alba, blush-white; Rosea, rose; Rubra, crimson. Each, 25c; per dozen, $3.50.

Peonies—Japanese Single

The single Peonies are even more beautiful than the double. They are larger in size of flowers and more delicate in coloring. No other plant flowering at the same season can vie with the Single Peony.
Mixed Colors. Each, 30c; per dozen, $3.00.

We do not guarantee or replace plants, shrubs or trees at prices quoted.
HARDY HERBACEOUS PLANTS
(Continued)

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 very little attention.

Golden Glow. Double canary yellow flowers, six feet; each, 20c; per dozen, $2.00.

Newmanni. Single dark orange, with deep purple cone center; three feet high; flowers from July to September. Each, 20c; per dozen, $2.00.

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 a half feet high. Each, 20c; per dozen, $2.00.

SALVIA AZUREA
Azurea. Grows two to three feet high and produces pretty sky-blue flowers in great profusion during August and September. Each, 25c; per dozen, $2.00.

SCABIOSA
Caucasia. (Blue Bonnet.) Blooms from June to September; flowers a soft shade of lavender borne on stems 18 to 24 inches high. Each, 25c; per dozen, $2.00.

Japonica. They last a long time when picked and placed in water. Bears lavender-blue flowers on long stems from July to September. Each, 20c; per dozen, $2.00.

SEDUM (Stone Crop)
Acre. (Golden Moss.) Much used for covering graves; foliage green, flowers bright yellow. Each, 20c; per dozen, $2.00.

Album. Green foliage, white flowers. Each, 20c; per dozen, $2.00.

Sexangulare. Dark green foliage, yellow flowers. Each, 20c; per dozen, $2.00.

Spectabilis. Erect growing, 18 inches high; with broad light-green foliage and immense heads of handsome, showy, rose-colored flowers. Each, 20c; per dozen, $2.00.

Spiritus. Grows 6 inches high with attractive pink flowers. Each, 20c; per dozen, $2.00.

SHASTA DAISY
Large, snow-white flowers, in bloom continuously throughout the Summer and Fall.

Alaska. A decided improvement on the original, very free-flowering, with blooms 4½ to 5 inches across, of pure, glistening white. Each, 20c; per dozen, $2.00.

King Edward. The tallest plant of this growth. Each, 25c; per dozen, $2.50.

SPIREA (Goat's Beard, Meadow Sweet)
Filipendula, w. p. (Double Flowered Drop-wort.) Pretty fern-like foliage, with double white flowers on stems 15 inches high during June and July. Each, 25c; per dozen, $2.50.

Palmata Elegans. Pure white flowers with protruding pink anthers during June and July; 3 feet. Each, 25c; per dozen, $2.50.

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. Each, 20c; per dozen, $3.00.

STOKESIA (Gumflower 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. Each, 20c; per dozen, $2.00.

Alba. White flowers and green foliage. Each, 20c; per dozen, $2.00.

SWEET WILLIAM (Dianthus Barbatus)
Well known hardy plant. We offer a superb strain of mixed single and double-flowering sorts. Each, 20c; per dozen, $2.00.

Newport Pink. Salmon or watermelon-pink flowers. Each, 20c; per dozen, $2.00.

VALERIANA
Coccinea. Showy heads of reddish flowers, blooming from June to October. Height, 2 feet. Each, 20c; per dozen, $2.00.

Officinalis. (Hardy Garden Heliotrope.) Produces showy heads of rose-tinted white flowers during June and July, with strong heliotrope odor; 3 to 4 feet. Each, 20c; per dozen, $2.00.

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. Each, 20c; per dozen, $2.00.

VERONICA (Speedwell)
Amethystina. Grows 2 feet high; bears amethyst-blue flowers in June and July. Each, 20c; per dozen, $2.00.

Incana. Bright silvery foliage, with spikes of amethyst-blue flowers 1 foot high during July and August. Each, 20c; per dozen, $2.00.

Longifolia Subsessilis. A pretty species with blue flowers, produced on spikes a foot long, continuing in bloom the entire Summer and Fall. Each, 25c; per dozen, $3.00.

Spicata. An elegant border plant, growing about 1½ feet high, producing long spikes of bright blue flowers. Each, 25c; per dozen, $2.00.

Virginica. Long spikes of white flowers in July and August; 3 to 4 feet. Each, 20c; per dozen, $2.00.

VIOLAS, or TUFTED PANSIES
(Viola Cornuta)
They flower continuously for nearly eight months in the year and while their flowers are not so large as those of the Pansy, their bright colors make them welcome additions to any garden.

Admiration. Soft purple, with dark blotch.


Papilio. Violet, with dark eye; the most effective for massing.

White Perfection. A fine white.

YUCCA FILAMENTOSA
(Adam's 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. Each, 20c; per dozen, $2.00.

ORNAMENTAL GRASSES
Erianthus Bavennae. (Plume Grass.) Grows six to eight feet high, and produces plumes in Full.

Eulalia Graecilima. (Japan Rush.) The most beautiful of all the Eulalias, with narrow, graceful foliage, entirely green without variegation, except that the mid-rib 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.

Above, each, 25c; per doz., $2.00; extra by mail, 10c each.

Cannot accept orders for Hardy Perennial plants totaling less than One Dollar.

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

Thorough preparation of the soil by plowing, and the addition of a liberal quantity of sheep or stable manure or bone meal will be well repaid by strong, vigorous, healthy growth. In planting, care should be taken not to overcrowd, allowing sufficient room for future development, unless an immediate effect is wanted—in which case they may be planted closer and some of them moved when necessary. The majority of the dwarf-growing kinds may be set about three feet apart, the tall, strong growers about five feet apart.

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.

**Stocks of Ornamental Flowering Shrubs** have become greatly depleted in the last two years, consequently it is no longer possible to offer two or more sizes, except in a few instances. Our prices contemplate furnishing the largest sizes now available.

We give no warranty, express or implied, as to description, quality, productiveness, or any other matter of any seeds, bulbs or plants we send out, and we will not be in any way responsible for the crop. If the purchaser does not accept the goods on these terms, they are at once to be returned.

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.

**Pink flowering** . . . . Each, $1.25; per dozen, $12.50.

**White flowering** . . . . Each, $1.25; per dozen, $12.50.

**ALTHEA.** (Rose of Sharon.) The Altheas are among the most valuable of our hardy shrubs on account of their late season of blooming, which is from August to October. They are also extensively used as hedge plants.

**Boule-De-Feu.** Double red.

Each, 60c; per dozen, $6.00.

**Grandiflora Superba.** Double blush, white shaded carmine. . . . Each, 60c; per dozen, $6.00.

**Jeanne D'Arc.** Double White.

Each, 60c; per dozen, $6.00.

**Meehanii.** Beautiful variegated foliage with satiny lavender colored single flowers, open and free blooming.

Each, 75c; per dozen, $7.50.

**Single Rose, White and Purple.** Each, 60c; per dozen, $6.00.

**Double Rose, White and Purple.** Each, 75c; per dozen, $6.00.

**SERBERIS, Thunbergii.** (Japanese Barberry.) One of the most beautiful shrubs either for hedging or general purposes. It is of a neat, compact growth and the foliage is beautiful at all times, and in the fall turns to a most brilliant crimson color. The plant is covered with bright scarlet berries all the fall and winter. It seldom grows over four feet high.

15 to 18 inches, Each, 40c; per dozen, $4.00.

18 to 24 inches, Each, 50c; per dozen, $5.00.

24 to 30 inches, Each, 65c; per dozen, $6.50.

**BUDDLEA.** (Butterfly Shrub or Summer Lilac.) Variabilis Magnifica. Flowers continuously all season. The flower racemes are composed of many little blossoms in the shape and color of lilacs.

Plants, Each, 35c; per dozen, $3.50; clumps, each, 75c.

**CALYCANTHUS FLORIDUS.** (Sweet-Scented Shrub.) Flowers fragrant, double and of a chocolate color.

Each, 60c; per dozen, $6.00.

**CERCIS CANADENSIS.** (Judas Tree or Red Bud.) Very showy and beautiful when in bloom. All the branches and twigs are covered with a mass of small pink flowers early in the spring, before the leaves appear.

Each, 75c; per dozen, $7.50.

**CHIONANTHUS VIRGINIANA.** (White Fringe Tree.) Large shrub or small tree with large, heavy leaves almost hidden in spring by a thick mist of fragrant, drooping white flowers.

Each, 60c; per dozen, $6.00.

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

**CLETHRA ALNIFOLIA.** (Sweet Pepper Bush.) Dark green foliage and upright spikes of creamy white, fragrant flowers in August. (See cut.)

Each, 60c; per dozen, $6.00.

**CORCHORUS.** (Kerria.) Globe Flower or Japanese Rose, Japonica. A shrub four to six feet tall. Native of Japan. Leaves bright green, fading in autumn to tones of yellow. Flowers numerous, bright yellow, large and showy. A charming old-fashioned plant.

Each, 60c; per dozen, $6.00.

**CORNS FLORIDA.** (White Flowering Dogwood.) The flowers, produced in spring before the leaves appear, are from three to three and one-half inches in diameter, white and very showy. They begin to appear as the Magnolia flowers are fading, and are invaluable for maintaining a succession of bloom. Foliage greyish green, glossy and handsome, and in the autumn turns to a deep red; one of the most showy flowering trees.

Each, 1.25; per dozen, $12.50.

**CORNS FLORIDA RUBRA.** (Red Flowering Dogwood.) A rare variety, similar to the common type, except in color of the flowers, which are rich rosy-red. The two varieties make a fine contrast.

Each, 2.50; per dozen, $25.00.

**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.

Each, 2.00; per dozen, $20.00.

**CYDONIA JAPONICA.** (Japan Quince.) The scarlet-red flowers appear before the leaves and are followed by yellowish-green globular fruits.

Each, 50c; per dozen, $5.00.

**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. . . . Each, 65c; per dozen, $6.50.

**DEUTZIA LEMONII.** Habit dwarf, flowers white. One and one-half to two feet. Each, 60c; per dozen, $6.00.

**DEUTZIA PRIDE OF ROCHESTER.** Large double white flowers, slightly tinted with rose.

Each, 60c; per dozen, $6.00.

**ELDER, GOLDEN.** (Sambucas.) Golden yellow foliage.

Each, 65c; per dozen, $6.50.
ORNAMENTAL FLOWERING SHRUBS—Continued

EUONYMUS EUROPAEUS. (Burning Bush.) Conspicuous in autumn and winter, when loaded with scarlet seed pods, from which orange-colored berries hang on slender threads. Each, 75c; per dozen, $7.50.

FORSYTHIA VIRIDISSIMA. (Golden Bell.) Erect growth and spreading branches; flowers bright yellow. Each, 60c; per dozen, $6.00.

HALESIA TETRAPTERA. (Silver Bell.) White, bell shaped flowers in May. Bears four winged fruit from one to two inches long.
Each, 65c; per dozen, $6.50.

HYDRANGEA ARBORESCENS STERILIS. (Snowball-Hydrangea.) Snowy white blooms; will flower for fully three months.
Each, 65c; per dozen, $6.50.

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. (See cut.)
18 to 24 inches, each, 65c; per dozen, $6.50.
2 to 3 feet, each, 75c; per dozen, $7.50.

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 nicely shaped heads. Four to five feet, each, $1.75.

LILACS. (True Syringa.) (See cut.) Purple. (Syringa Vulgaris.) The common purple species, and one of the best.
Each, 75c; per dozen, $7.50.

White. (Syringa Vulgaris Alba.) Flowers pure white, very fragrant.
Each, 75c; per dozen, $7.50.

Price of any of the following named Lilacs.
Fine plants each, $1.00; per dozen, $10.00.
Charles X. Rapid grower, reddish purple flower.
Madame Lemoine. Double white flowers.
Michael Buchner. Double pale lilac.
LONICERA. (Bush, or Upright Honeysuckle.) Handsome upright shrubs. They thrive in almost any soil.
Ledebouri. Very distinct, producing red flowers in May.
Each, 50c; per dozen, $5.00.
Morrowi. A handsome Japanese variety with white flowers during May, but especially valuable for its bright red fruit during the summer and autumn months.
Each, 50c; per dozen, $5.00.
Tartarica. (Tartarian Honeysuckle.) A large shrub with numerous upright or spreading branches. Flowers borne in great profusion in late spring. Fruit red or orange, ripening in summer. Red, white, and pink.
Each, 60c; per dozen, $6.00.

MAHONIA AQUAFOLIA. (Holly-leaved Mahonia.) A native species of medium size, with purplish, shining leaves, and showy, bright yellow flowers succeeded by bluish berries. 18 to 24 inches, each, 75c; per dozen, $7.50.

PRIVET. See Hedge Plants.

PHIADELPHUS OR SYRINGA. (Mock Orange or Orange Blossoms.) A shrub that can always be depended upon to give splendid satisfaction. No insects bother it, and in May and June the bushes are literally covered with flowers.
Grandiflorus. (Largeflowering Mock Orange.) Without a doubt one of the most popular shrubs grown, and ought to be in every garden. Flowers are pure white and very large. Each, 50c; per dozen, $5.00.
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. Each, 65c; per dozen, $6.50.
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. Each, 65c; per dozen, $6.50.

SAMBUCUS. Aures. (Golden Elder.) Attractive golden foliage and desirable to mix with other shrubs.
Each, 65c; per dozen, $6.50.

SPIREA. A large group of showy, free-flowering, hardy shrubs.
Anthony Waterer. Makes nice, round bushes, three feet high and wide; beginning to bloom in summer, continuing until fall. Rose red flowers in large, round clusters all over the bush. 12 to 15 inches.
Each, 65c; per dozen, $6.50.

Billardii. Pink flowers; bloom nearly all summer. It is grand for planting in masses.
Each, 50c; per dozen, $5.00.

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

Spiraeas continued on next page.
ORNAMENTAL FLOWERING SHRUBS—Continued

**SPIREA—Continued**

**Opulifolia Aurea.** (Virginian Guilder Rose.) Golden-tinted foliage and large white flowers in June; two to three feet. Each, 50c; per dozen, $5.00.

**Prunifolia Pl. Pl.** (Old Bridal Wreath.) Blooms in May, with pure white, double flowers. Each, 65c; per dozen, $6.50.

**Reevesii Pl.** Tall, with dark, bluish green foliage, and large, double, pure white flowers, in May and June. Each, 65c; per dozen, $6.50.

**Thunbergii.** Of dwarf, graceful form. Branches slender and somewhat drooping; foliage narrow and yellowish green; flowers small, white, appearing early in spring. Each, 60c; per dozen, $6.00.

**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 the lawn, in front of the 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. Blooms in May. (See cut.)

Two to three feet, each, 45c; per dozen, $4.50.
Three to four feet, each, 60c; per dozen, $6.00.

**SYMPHORICARPUSS. Raeinosus.** (Snowberry.) A graceful shrub, three to five feet tall, with slender branches. Flowers white or pinkish, in loose racemes, in summer. Berries white, produced in showy, profuse clusters, the branches bending under their weight. Each, 60c; per dozen, $6.00.

**SYMPHORICARPUSS. 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. Berries coloring in early autumn, very showy. Does well in shade.

Each, 50c; per dozen, $5.00.

**TAMARIX. Africana.** (Tamarisk.) Strong, slender, tall growing, irregular shrubs, with feathery foliage and small, delicate pink flowers. Each, 50c; per dozen, $5.00.

**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.

**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.

Each, 50c; per dozen, $5.00.

**Opulus Sterilis.** (Guilder 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.

Each, 60c; per dozen, $6.00.

**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.

Each, 65c; per dozen, $6.50.

**WEIGELLA.** (Dierella.) 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 Weigella, flowering throughout the summer. Each 60c; per dozen, $6.00.

**Eva Rathke.** The finest Weigella in cultivation. Flowers continuously throughout the summer and autumn; of an entirely distinct color, being a rich, ruby carmine. Should be in every garden. Two to three feet.

Each, 65c; per dozen, $6.50.

**Rosea.** A beautiful shrub, with rose-colored flowers in May and June. Each, 60c; per dozen, $6.00.

**Rosea Rosa 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. Two to three feet. Each, 60c; per dozen, $6.00.

**ORNAMENTAL TREES**

**CATALPA BUNGEE.** (Umbrella Catalpa.) Grafted on stems 6 to 9 feet high, it makes an umbrella shaped top without pruning. Perfectly hardy. Leaves large, glossy, heart-shaped, deep green, lay like shingles on a roof, always making a symmetrical head. One of the most unique trees; desirable for lawns, park and cemetery planting. 6 to 7 feet, each, $2.50; selected two-year-old, each, $3.00.

**MAPLES, JAPANESE.** These are exceedingly beautiful, especially in spring, when they burst into leaf.

**Polymorphum Atropurpureum.** Leaves deep blood-red. Each, $5.00.

**Polymorphum Atropurpureum Dissectum.** Dark maroon, deeply serrated, thread-like leaves.

Each, $6.00.

**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. 1 year heads, each, $2.75; 2 to 3 year heads, each, $3.25.
Hardy Hybrid Perpetual Roses

Among all the hardy plants few are so commonly well liked or more valuable than the roses, particularly the "June Roses," as the Hybrid Perpetuals are called. They are strong growers, bearing large globular flowers, and are so hardy that they succeed in any locality. The severest winters will not kill them, but it is generally conceded that protection is beneficial when the straw, maize, corn-stalks or other covering is not so thick as to be unnatural and smother them.

Hardy Hybrid Perpetual Roses should be planted in the Fall, because dormant stock for Spring delivery is unsatisfactory on account of being carried in storage cellars all winter. For this reason we have discontinued making Spring deliveries on Hardy Perpetual and Hardy Climbing Roses.

Strong Two-Year-Old Plants Ready for Delivery During October and November.

Price—Extra Strong Plants, each, $1.00; per doz., $10.00. Sent by express at customer’s expense.

If wanted by mail, add 10c each, 75c per dozen, for postage.

Captain Christy. Delicate flesh pink, very free.

Eugene Furst. Flowers velvety crimson with maroon shading.

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.

Mme. Plantier. Pure white, large and double, free bloomer, fine for cemetery planting.

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


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.

PRICE—Strong 2-Year-Old Dormant Stock for Fall Planting, each, $1.00; per dozen, $10.00. By Express at Purchaser’s Expense.

American Pillar. Color is a delightful shade of pink.

Crimson Rambler. Bright crimson flowers.

Dorothy Perkins. Beautiful shell pink flowers.


Flower of Fairfield. Large trusses of crimson flowers.


Lady Gay. A delicate cherry pink.

Silver Moon. Large pure white flowers.

Tausendschon. Beautiful soft pink flowers.

Gardenia. (Wichuriana) Flowers cream color.

Veilchenblau. (Blue Rambler.) Blush flowers.

We do not guarantee or replace plants, shrubs or trees at prices quoted.
SELECT thrifty young trees in preference to old or very large ones; the roots are more tender and fibrous and 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 outstrip 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.

By Express or Freight at Expense of Purchaser.

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

While we make no charge for packing or delivery to freight or express offices here, still on account of increased cost of operation we cannot accept orders for Fruit Trees in smaller quantities than six, either straight or assorted, at prices quoted. In smaller quantities, add 25c per tree or make up a Club Order among your friends that can be shipped to one address.

APPLES, STANDARD
5 to 7 feet high. Each, $1.35; per dozen, $13.50.

SUMMER VARIETIES
Early Harvest. (Early June, Yellow Harvest). Fruit is medium size to large, the skin tender, very smooth, clear, pale, waxen yellow; flesh is white, rather fine, crisp, tender, juicy, at first briskly sub-acid, but eventually becoming milder and more agreeable for dessert. Ripens in July and August.

Red Astarahan. Fruit of medium good size; yellow, largely covered with red, presenting a striped appearance; flesh white, often strongly tinged with red, crisp, tender, juicy, sub-acid and of good quality. One of the most beautiful early market apples. Ripens in August.

Yellow Transparent. (White Transparent, Grand Sultan). The tree is an upright grower and usually bears fruit the next year after planting. Fruit of medium size, pale, waxen yellow, pleasantly acid, tender and good, splendid for home and market. Ripens in July and August, before Early Harvest.

APPLES, STANDARD
5 to 7 feet high. Each, $1.35; per dozen, $13.50.

AUTUMN VARIETIES
Delicious. This is probably the best of the newer varieties, having been most thoroughly tested in many parts of the country. Fruit is brilliant dard red, shading to yellow at the blossom end. Flesh is crisp, fine grained and quite juicy; flavor slightly acid and very pleasing.

Duchess of Oldenburg or Duchess. A variety of great hardness, yielding abundantly in all sections. Fruits are large, round, yellow, striped red, tender, juicy and of the best quality for cooking.

Fall Rambo. Fruit mottled and striped red and yellow, of medium size and good flavor; widely cultivated and highly esteemed for eating. Tree is a strong grower and heavy bearer.

Madden’s Blush. Fruit of uniformly good size, smooth, round, beautifully flushed with brilliant red on a yellow ground. Good for table use. One of the most beautiful and productive Fall varieties. Ripens in August and September.

CRAB APPLES
5 to 7 feet high. Each, $1.35; per dozen, $13.50.

CRAB Apples do well on almost all soils. Trees are hardy and vigorous; come into bearing early and bear almost every year. Excellent for cider, vinegar and jelly.

Hyslop. Bears large crimson fruit in clusters. October.

Transcendent. Largest and best of the Siberian Crabs. Tree is extremely hardy, good grower and usually very productive. Fruit is bright yellow, striped with red and one and one-half to two inches in diameter. Flesh is crisp, juicy and sub-acid. August and September.

Whitney. Tree is a hardy, thrifty, upright grower; comes into bearing young and is very productive. Fruit is green, spotted with carmine. Flesh yellowish, crisp, juicy and splendid for eating and cider. August and September.

Yellow Siberian. Color of fruit is amber with red blush and of medium size. September.

SUITABLE DISTANCES FOR PLANTING FRUIT TREES.

Apples, standard, 30 to 40 feet. Pears, standard, 18 to 20 feet. Peaches, 16 to 18 feet. Cherries, sweet, 18 to 20 feet. Cherries, sour, 15 to 18 feet. Plums, 16 to 20 feet. Quinces, 10 to 12 feet.

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

CHERRIES

HEART AND BIGARREAU (Sweet)

4 to 6 feet, first-class, each, $2.50; per doz., $25.00.

No orchard is complete without some cherry trees. They are easily grown wherever the apple succeeds and they bear good crops yearly.

Black Tartarian. A beautiful purplish cherry of large size and superb quality, rich and juicy. Late June and July.

Governor Wood. One of the finest sweet cherries. Fruit is large, light red, juicy and delicious. Tree is healthy and productive. June.

Napoleon. Fruit of large size, white with red checks, firm and juicy. One of the best. Early July.

Rockport Bigarreau. Fruit large, round, light red, flesh firm and of fine flavor. Late June.

Yellow Spanish. A large handsome sweet cherry; yellow with light red cheek, firm and delicious. Late June.

DUKE AND MORELLO (Sour)

4 to 6 feet, first-class, each $2.50; per doz., $25.00.

Dyehouse. One of the earliest cherries. Similar to the Early Richmond but ripens about a week earlier and is sweeter. The fruit is medium sized, soft, red and juicy. Tree is hardy and very productive. June.

Early Richmond or May. Unsurpassed for cooking. The tree is a free grower and reliable producer. The fruit is medium size, dark red, juicy and has an acid flavor. June.

English Morello. Fruit is large, dark red, nearly black, rich, juicy, with acid flavor. Tree is of dwarf growth. Late July.

Windor. A large, delicious cherry; reddish-brown or liver colored. Valuable for late market or home use. July.

MULBERRIES

4 to 6 feet, each $1.00; per doz., $10.00.

Dowling’s Everbearing. One of the most prolific varieties, bearing an abundance of large, black, sub-acid fruits; hardy.

PEARS

STANDARD AND DWARF

5 to 7 feet, first-class, each $1.85; per doz., $18.50.

Bartlett. One of the most popular sorts, both for home and market. It is large, handsome, waxy yellow with red blush, flesh buttery, rich, juicy and highly flavored.

Duchess D’Angouleme. The skin is a dull greenish-yellow; flesh white, melting, juicy and well flavored. Tree is a vigorous grower. October and November.

Flemish Beauty. The fruit is large, the skin pale yellow; the flavor is sweet and melting. September and October.

Kieffer’s Hybrid. Large, rich color and good quality. Fine for canning and preserving. October and November.

Seckel. Small, yellowish brown, of rich, delicious flavor, very popular for dessert. August and September.

Sheldon. Of the finest quality, rich and aromatic. Fruit is greenish russet with a red cheek, large size and somewhat flattened shape. September.

PEACHES

4 to 5 feet, each $1.00; per doz., $10.00.

If living on a farm, plant a small peach orchard for home use or a larger one for commercial purposes. If living on a city lot, plant peach trees in the back yard.

Champion. One of the finest freestone peaches. Large, creamy-white with slight blush. Flesh white, rich, sweet, juicy and of excellent flavor. August.

Crawford’s Early. Very large, rich, yellow freestone of the finest quality. Late August.

Crawford’s Late. This peach is similar to Crawford’s Early, but ripens two or three weeks later. Freestone. Late September.

Elberta. The fruit is large with golden-yellow skin covered largely with crimson; flesh is yellow, firm, juicy and of high quality, very prolific. Freestone. September.

Heath Cling. Fruit very large, creamy white with faint blush. Flesh white to the stone, juicy and sweet with a good aroma. October.

Old Mixon Free. The standard late white peach. A large tender freestone with tender, excellent white flesh. September.

PLUMS

STANDARD ON PLUM STOCKS

5 to 7 feet, each $2.50; per doz., $25.00.

Plum trees require but little room to grow and are prolific bearers. For dessert, cooking and canning the demand is almost unlimited.

Abundance. Large, beautiful yellow, heavily overspread with purple-carmine. Flesh yellow, juicy, sweet, firm, with tough skin. July.

Bradshaw. Very large, dark violet-red; flesh yellow, juicy and good. Tree an erect, vigorous grower. Middle of August.

Burbank. Fruit very large, color cherry red, mottled; flesh yellow, sweet and firm. Hardy and vigorous grower. August.

Lambard. A favorite for canning. Fruit is medium size, oval and violet red. Flesh is yellow, juicy, pleasant and good. Late August.

Red June. An early ripening plum of good quality. Fruit medium to large, purplish-red; flesh yellow, solid, juicy and of good quality. Early August.

Shippers Pride. Large, showy, dark purple fruit. The flesh is sweet and firm. September.

Yellow Egg. A beautiful yellow, egg-shaped plum of large size; flesh yellow. Excellent for canning. Late August.

QUINCES

3 to 5 feet, each $1.85; per doz., $18.50.

Apple or Orange. Large, round, bright golden yellow, cooks quite tender and has an excellent flavor. Valuable for preserving and for market. An abundant bearer.

Champion. The fruit is large, oval, of a rich color and excellent quality. Ripens late and keeps well until January.

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

**Per dozen, $1.00; per 100, $6.00.**

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 berries of fine quality. Rathbun. Fruit very large, sweet and luscious. Snyder. Medium size; sweet and juicy. Taylor. Medium size fruit of fine flavor; ripens late. Ward. Fine, large fruit of excellent quality, hardy.

COURRANTS

**Two-Year-Old Plants**

A cool, moist soil is best adapted to the growth of currants. They should be well cultivated and heavily mulched. Cherry. Large, bright red berries, with a thin skin and fine flavor. Each, 50c; per dozen, $5.00. Champion. This is one of the best black currants; fruit is above medium size with fine flavor. Each, 50c; per dozen, $5.00. Perfection. Color of fruit is a beautiful bright red, of large size and a rich, mild, sub-acid flavor. Each, 50c; per dozen, $5.00. White Grape. The golden-white berries are borne in large, handsome clusters and have a mild sub-acid flavor. Each, 50c; per dozen, $5.00.

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. Per dozen, $1.00; per 100, $6.00.

GOOSEBERRIES

Two-Year-Old Plants

One of the hardiest of the bush fruits. The best results are obtained by planting in moist clay loam. Downing. Large, pale green and of splendid quality for both cooking and table use. Each, 50c; per dozen, $5.00. Houghton's. Small to medium; roundish oval, pale red, sweet, tender. Each, 50c; per dozen, $5.00. Industry. The best English variety yet introduced. Berries large, dark red color when ripe. Each, 50c; per dozen, $5.00. Smith's Improved. Large, pale greenish yellow, skin thin, of excellent quality. Each, 50c; per dozen, $5.00.

RASPBERRIES

Once the raspberry patch is established it requires very little cultivation. They thrive in good, moist soil. Black caps should be planted in the spring.

St. Regis. It is wonderfully prolific, the first or main crop being far greater than that of any other red variety known. It fruits on the old canes in generous quantities until late in August. By that date, berries begin to ripen upon the young canes, which continue to produce berries in increasing numbers until severe frost. The berries are a bright crimson, of large size and surpassing quality—rich, sugary with full raspberry flavor. They are exceedingly meaty, of firm texture and keep in good condition longer after being gathered than any other red raspberry. Per dozen, $1.00; Per 100, $6.00.

The following varieties are all, per doz., $1.00; per 100, $6.00.

Cardinal. Considered one of the very best purple berries, as they produce a fine quality of dark red or almost purple berries through a long season. Cumberland. The largest black cap. Cuthbert. Large, firm, deep rich crimson. Gregg. A large black cap variety, fruit firm. Kansas. The hardest black cap; strong, vigorous.
STRAWBERRIES AND GRAPE VINES

By Express or Freight at Expense of Purchaser.
Impossible to Accept Orders for Small Fruits Totaling Less than One Dollar.

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 a great benefit.

Strawberries are naturally shallow-rooted plants and must be encouraged continually to send their roots deep, in order to be sure of a supply of moisture and to feed in a soil of even temperature.

Plant in spring—always the best time—and see that no soil is allowed to remain in the crown of the plant.

Mulching strawberries is done to keep the soil moist and cool in summer, to protect the berries from mud and dirt when ripe and to protect the plants in winter. The winter protection should not be put on until the ground freezes.

Strawberries for garden culture should be planted in rows three feet apart and one foot apart in rows. For field culture plant in rows four feet apart and eighteen to twenty-four inches apart in row.

Dip the plants in water as soon as received, and bury the roots in moist, shady ground till you are ready to set them out.

Superb. The Ever-bearing Strawberry—Superb is a truly wonderful, fall-bearing variety, and what makes it unusually profitable is the fact that it also produces a heavy yield of choice fruit in the early summer, along with the standard varieties. They continue to give large yields of choice berries throughout August, September and in October up to the time the ground is slightly frozen. Plants of this variety which are set in the spring should have the blossoms removed until the first of July. The blossoms may be left to develop into berries, and a good crop of fruit will thus be secured the same season the plants are set, without injury to the plants. . . . . . . . . . . . . Per dozen, 50c; per 100, $3.00.

The following varieties are all, per dozen, 50c; per 100, $1.75; per 1,000, $15.00.

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 and rich.


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

Wm. Belt. Berries very large, conical, bright red; of good flavor. The plant is strong, healthy and fruitful.

GRAPES

ALL TWO-YEAR OLD SELECTED STOCK

This is one of the most satisfactory crops that can be grown, because it can be depended upon practically every year.

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. Each, 50c; per doz., $5.00.

Ives’ Seedling. Dark purple, sweet. Each, 50c; per dozen, $5.00.

Moore’s Early. Ripens ten days earlier than Concord; bunch and berry round and large. Each, 50c; per dozen, $5.00.

RED GRAPES

*Catawba. Berries large, round; when ripe a dark copper color; sweet, rich. . . . . . . . Each, 50c; per dozen, $5.00.

Delaware. Small, light red, thin skin; very juicy, sweet, spriightly. . . . . . . . Each, 60c; per dozen, $6.00.

WHITE OR YELLOW GRAPES

Niagara. Bunch and berries large, light greenish white, slightly ambered. . . . . . . . Each, 50c; per dozen, $5.00.

Pocklington. Bunch and berry very large; attractive, golden yellow color. . . . . . . . Each, 50c; per dozen, $5.00.

Varieties marked with an (*) are best for arbors.

HUBBARD THE NEW BLACK GRAPE

Quality sweet and delicious, having that fine and pleasant flavor approaching the European or Vinifera Grapes. Berries and bunch large and uniform; ripens ten days earlier than Concord. Supply limited. Each, $1.50; Per doz., $15.00.

SUITABLE DISTANCES FOR PLANTING SMALL FRUITS AND GRAPE VINES

Blackberries, 5 to 7 feet. 
Currants, 3 to 4 feet. 
Gooseberries, 3 to 4 feet. 
Raspberries, red, 3 to 4 feet. 
Strawberries, 1 x 3 ½ feet. 
Strawberries, in beds 1/2 x 1 ½ feet. 
Grapes, 8 to 10 feet.
Shade and Ornamental Trees

FOR LAWN, STREET AND FOREST PLANTING

ORNAMENTAL shade trees play an important part in the arrangement of all lawns and parks. They are often invaluable as windbreaks, supply shade, and help retain the moisture—conditions that are essential to the growth of many of the choicest shrubs and perennials.

There are trees noteworthy for their profusion of bloom; some for the unusual color of bark or leaves; and some for the strength of their limbs. Some trees will enclose smoke much better than others, making them valuable for city planting.

For many years we have given especial attention to ornamental shade trees, and are confident of our ability to please the most critical buyer. We have the largest variety of this class of stock to be found in this part of the State.

ASH. American White. A handsome, hardy, broad-headed, quick growing shade tree. Valuable for park and street planting. 6 to 8 feet. Each, $2.00; per dozen, $20.00.

ASH. European. Smaller in its habit of growth and more spreading than the American. 6 to 8 feet. Each, $1.50; per dozen, $15.00.

BIRCH. European White. This is a valuable species with white bark. Very effective in landscape work. 5 to 7 feet. Each, $2.25; per dozen, $22.50.

CATALPA SPECIOSA. A handsome, rapid growing tree, with large, bright green foliage. Valuable for lawn and street planting. 8 to 10 feet. Each, $2.25; per dozen, $22.50.

CATALPA BUNGII. (Umbrella Catalpa.) See "Ornamental Trees," page 35, for description.

ELM. American. A valuable tree for park, avenue and lawn planting. A hardy, rapid grower; resists drought well and is long lived. 8 to 10 feet. Each, $1.50; per dozen, $15.00.

LINDEN. American. A rapid growing tree with large leaves and fragrant flowers. Extensively used as a lawn tree, also for park and street planting. 8 to 10 feet. Each, $2.75; per dozen, $27.50.

LINDEN. European. This is the broad-leaved linden of European plantations and probably the largest. 8 to 10 feet. Each, $2.75; per dozen, $27.50.

LIQUIDAMBER. (Sweet Gum.) A very ornamental tree and beautiful at all stages. Splendidly adapted for street and park planting. 5 to 6 feet. Each, $2.25; per dozen, $22.50.

MAPLE. Norway. A large, handsome tree with a compact, rounded head of spreading branches. One of the best trees for lawn, park, street or cemetery planting. 8 to 10 feet. Each, $3.00; per dozen, $30.00.

MAPLE. Rock or Sugar. An excellent shade tree of upright, dense growth. Grows to a large size and is long lived. 6 to 8 feet. Each, $2.25; per dozen, $22.50.

MAPLE. Silver or Soft. This is an ornamental tree with wide, slender, spreading branches and thrives almost anywhere. 8 to 10 feet. Each, $1.75; per dozen, $17.50.

MAPLE. Japanese. See "Ornamental Trees" Page 35.

OAK. Red. A beautiful tree of rapid growth, growing into a large, majestic tree, with broad, round head, the foliage turning dark red in fall. 6 to 8 feet. Each, $2.50; per dozen, $25.00.

OAK. Scarlet. A noble tree with gradually spreading branches, which form a rather open head. Leaves turn scarlet in fall. 6 to 8 feet. Each, $2.50; per dozen, $25.00.

OAK. Pin. A handsome tree, especially when young. Tree is fibrous rooted, transplant well and grows rapidly. Foliage turns bright red in fall. 6 to 8 feet. Each, $2.50; per dozen, $25.00.

POPLAR. Carolina. One of the surest and most rapid growing trees. The leaves are glossy and fresh looking. Valuable for quick effects. 10 to 12 feet. Each, $1.75; per dozen, $17.50.

POPLAR. Bolleana. Its habit of growth is broader than the Lombardy. Tall growing with cottony leaves. 8 to 10 feet. Each, $1.75; per dozen, $17.50.

POPLAR. Lombardy. This is an excellent tree for landscapes because with age it becomes striking and picturesque. 8 to 10 feet. Each, $1.75; per dozen, $17.50.

SALISBURY. (Maiden Hair or Ginkgo.) A tall, sparsely branched, usually slender tree, with leaves similar in shape to the Maiden Hair Fern. Especially valuable for solitary planting to secure picturesque effects. 6 to 8 feet. Each, $2.75; per dozen, $27.50.

SYCAMORE. Platanus Orientalis. (Oriental Plane.) This is among our largest and tallest growing trees. Very hardy and does well in moist places. Excellent for street, park and lawn planting. Thrives well in smoky cities, making it a good tree for city planting. 8 to 10 feet. Each, $2.00; per dozen, $20.00.

SYCAMORE. Platanus Occidentalis. (American Sycamore, Buttonwood.) Similar to the Oriental Sycamore in general habit of growth, but more susceptible as to location and sheds its leaves earlier in the fall. 6 to 8 feet. Each, $1.75; per dozen, $17.50.

TULIP TREE. (Liriodendron Tulipifera.) A tall, handsome, hardy, ornamental tree of pyramidal habit and rapid growth. Heirs numerous tulip-shaped, fragrant flowers of a creamy yellow and orange color in June. 6 to 8 feet. Each, $1.75; per dozen, $17.50.

WEPPING 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. 6 to 8 feet. Each, $2.50; per dozen, $25.00.

MULBERRY. Teens Weeping. See "Ornamental Trees," page 35.

When wanting Shade or Ornamental Trees not listed here, write us, as we can usually supply in limited quantities several other varieties.

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

On account of the large demand for Evergreens we have made arrangements with one of the best Evergreen specialists in the country, whereby we are able to offer the following list of Evergreens. These are largely American stock and the quality will be the best that can now be supplied. We have tried to make prices as reasonable as possible and if you contemplate further plantings, would advise placing your order at once while stocks are still fairly complete.

All of our Evergreens are dug with a ball of earth around the roots and burlapped. This protects them in transit and this fact should be borne in mind by purchasers when comparing prices.

ARBORVITAE AMERICAN (Thuja Occidentalis)
Well known screen and hedge plant. 2 to 3 feet, each, $1.50; per dozen, $15.00; 3 to 4 feet, each, $2.00; per dozen, $20.00.

ARBORVITAE ELWANGERIANA
Low, broad pyramid with slender branches and yellowish foliage. 1 to 1 1/2 feet, each, $2.00; per dozen, $20.00.

ARBORVITAE GLOBE (Thuja Occidentalis Globosa)
Very dwarf and compact; grows naturally into a rounded, almost ball-like form. 1 to 1 1/2 feet, each, $2.25; per dozen, $22.50.

ARBORVITAE LUTEA (Geo. Peabody)
A handsome and desirable variety of the Golden Arborvitae. 2 to 3 feet, each, $2.75; per dozen, $27.50; 3 to 4 feet each, $3.25; per dozen, $32.50.

ARBORVITAE PYRAMIDALIS (Thuja Occidentalis Pyramidalis)
Suitable for tubs and possesses foliage of finer texture and more dense habit than the American Arborvitaes. 2 to 3 feet, each, $2.75; per dozen, $27.50; 3 to 4 feet each, $3.25; per dozen, $32.50.

ARBORVITAE SIBERIAN (Var. Wareana)
Of dwarf habit and conical outline. Rich, dark green foliage. Will withstand colder exposure than other sorts. 1 1/2 to 2 feet, each, $2.25; per dozen, $22.50.

ARBORVITAE TOM THUMB
Smaller and more compact than the variety Ericoides. Suitable for low hedges. 1 1/2 to 2 feet, each, $2.25; per dozen, $22.50.

FIR CONCOLOR (Colorado Silver Fir)
Grows in symmetrical pyramidal form, with long, feathery foliage, of silvery-green color, which curves upwards. 2 to 3 feet, each, $4.75; per dozen, $47.50.

IRISH JUNIPER (Juniperus Hibernica)
Grows erect in a dense column of dark green. 2 to 3 feet, each, $2.25; per dozen, $22.50.

JUNIPER JAPONICA AUREA (Golden Japanese Juniper)
Of erect conical habit with golden foliage. 2 to 2 1/2 feet, each, $5.00; per dozen, $50.00.

JUNIPER Pfitzeri
Of good form with graceful, dark green foliage. 2 to 3 feet, each, $1.50; per dozen, $15.00.

JUNIPER SCHOTTII
A dwarf, dense, pyramidal form with bright green and light foliage. 2 to 3 feet, each, $6.00; per dozen, $60.00.

JUNIPER VIRGINIANA GLAUCO
A vigorous growing form of the Junipers, with glaucous foliage. 3 to 4 feet, each, $5.00; per dozen, $50.00.

JUNIPER VIRGINIANA (Red Cedar)
This evergreen attains a height of one hundred feet, with conical head and spreading or upright branches. The leaves are spiny pointed. 3 to 4 feet, each, $2.75; per dozen, $27.50.

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

Page 42
Spraying Pumps and Appliances

Spraying is of such importance that the Experiment Stations all over this country have given much of their attention to it, and their findings have been of incalculable value. Diseases and insects can no longer exist if the proper Insecticides are applied through the medium of an up-to-date spray apparatus.

Paragon Sprayers

These sprayers are strongly constructed and can be easily operated by one man. Our patented, self-cleaning strainer prevents the necessity of first straining the liquid to be sprayed. The agitator also keeps the liquid thoroughly stirred. The spray nozzle has only 3-inch outlet and spreads the liquid well. All parts of the machine are made of the best material obtainable.

The reservoir is made of heavy galvanized iron. All essential fittings and valves are made of brass, making it strong and durable. The body of pump is cast iron, well ribbed, to prevent breakage. The screen is of heavy perforated brass and will last many years. The pump frame can easily be removed from tank when it needs cleaning and by running water through machine after use, the entire machinery can be easily and thoroughly cleaned. Suitable for spraying Insecticides and Fungicides on trees, shrubs and vines, as well as the application of Whitewash and Cold Water Paints.

Price List of Paragon Sprayers

<table>
<thead>
<tr>
<th>No.</th>
<th>Capacity (gallons)</th>
<th>Equipment</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>3½</td>
<td>4 feet sprayer hose, 3 feet spray pipe, 1 mist spray nozzle, 1 steel cap for mist nozzle, 1 straight spray.</td>
<td>$15.00.</td>
</tr>
<tr>
<td>1</td>
<td>6</td>
<td>5 feet 6-ply hose, 6 feet spray pipe, 2 spray nozzles.</td>
<td>$20.00.</td>
</tr>
<tr>
<td>2</td>
<td>12</td>
<td>10 feet 6-ply hose, 1½ feet spray pipe, 2 spray nozzles. Mounted on strong steel truck and can easily be wheeled to any desired place. Truck is easily detached when desired.</td>
<td>$30.00.</td>
</tr>
</tbody>
</table>

Send for descriptive circular giving detailed information.

Myer's Spray Pumps

Myer's Lever Bucket Brass Spray Pump. Complete with hose and graduating Vermorel fine, coarse spray and solid stream nozzle. $6.00.

Myer's Defense Brass Spray Pump. Complete with hose and graduating Vermorel fine, coarse spray and solid stream nozzle. $8.00.

Myer's Little Giant Brass Spray Pump. Complete with hose and imperial combination, fine, coarse spray and solid stream nozzle. $1.50.

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

Bordeaux Nozzle. .................................................. $1.00.

Vermorel Nozzle. .................................................. 90c.

Auto Compressed Air Spray

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

Auto Spray No. 1-B. Brass tank, with Auto-Pop Nozzle. $11.50.

Auto Spray No. 1-A. Galvanized tank, with Auto-Pop Nozzle. $8.00.

Brass Extension. Two feet, per length. 30c.

Elbow. ......................................................... 20c.

Bamboo Brass Lined Spray Poles

12-foot lengths ...................................................... net price $5.00

10-foot lengths ...................................................... net price 4.75

Gould's "Bordeaux" Hand Sprayer

The "Bordeaux" is a brass pump for garden or green-house work. It is fitted with brass ball valves which are proof against the action of acids or oils. The discharge hose is attached to the pump by a brass coupling. No suction hose is needed, as the pump rests in the pail with the malleable iron foothold outside. Equipped with 3 feet of 3/4-inch discharge hose and "Seneca" nozzle. Price $5.00.

Auto Spray No. 5

Pump, hose, nozzle and strainer. complete ........................................ $5.00.

Brass Extension, extra, 60c. Elbow, extra 30c.
**Insecticides and Fungicides**

**Liquid Insecticides and Poisons cannot be sent by mail.**

**ANT ERADICATOR.** Useful against ants in lawns, gardens, etc. 8 oz. can. 25c.

**BLACK LEAF 40.** Soft-bodied, sucking insects may be effectively controlled by spraying with "Black Leaf 40". This is a contact remedy. 1 oz. bottle. 25c; ½ lb. tin. $1.00; 2 lb. tin. $3.25; 10 lb. tin. $13.75.

**BUG DEATH.** Will not injure any Plant, Tree or Vine. Especially valuable for Cucumbers, Egg Plants, Melons, Rose Bushes, Curants and Potatoes. It drives ants from lawns, and won’t injure the grass. Full directions on each package. 1 lb. 20c; 3 lbs. 45c; 5 lbs. 70c; 12½ lbs. $1.40.

**ZENKE’S LIQUID FUNGICIDE.** A powerful, reliable remedy for Leaf Spot, Leaf Rust, Scab, Mildew, Black and Brown Rot and most other Fungoid troubles. (Sufficient to make 50 gallons of solution.) Per gallon. $3.25.

**FISH OIL SOAP.** For destroying insects on Plants, Trees, Vines. This is also a contact remedy. ½ lb. 20c; 1 lb. 50c; 3 lbs. $1.25; in bulk, 25 lbs. $5.50.

**GRAPE DUST.** A non-poisonous powder for the remedy and control of mildew and rot on grapes, Goose-berries, Roses, etc. 1 lb. 25c; 5 lbs. $1.00; 10 lbs. $1.75.

**LIME SULPHUR SOLUTION.** For Fall, Winter and early Spring spray. Destroys San Jose Scale, Peach Leaf Curl, Bud Moth, Apple Aphids, Blister Mite, any Scale Insects or Bark Lice. 1 qt. 40c; ½ gal. 65c; 1 gal. $1.00; 5 gals. $3.50.

**S. W. DRY LIME-SULPHUR.** A combination of Lime and Sulphur which can be used not only as a dormant spray but also as a summer spray in combination with Arsenate of Lead. 1 lb. can. 40c; 5 lb. can. $1.75; 10 lb. can. $3.00; 25 lb. can. $6.00.

**NICO-CUME LIQUID.** For destroying Aphids, Thrip and Red Spider. Contains 40 cent nicotine. This is a contact remedy. ¾ lb. 65c; 1 lb. $2.00; 4 lbs. $7.50; 8 lbs. $15.50.

**NICO-CUME PAPER.** Strips of paper strongly saturated with nicotine. These, when suspended and lighted, make one of the best and simplest methods of fumigating greenhouses. Price, air-tight cans, 24 sheets $1.25; 144 sheets, $5.00; 288 sheets, $9.50.

**ZENKE’S COMPOUND PLANT INSECTICIDE.** A contact remedy. Liquid. Very effective against Plant Lice, Black and White Fly, Mealy Bugs, Scale Insects, Eggs and Larva. A very effective wash for Palms and Rubber Plants. 8 oz. can. 25c; per gallon. $2.00. (One gallon is sufficient to make 20 to 35 gallons of solution.)

**SLUG SHOT.** Very effectual in destroying Caterpillars, Currant, Gooseberry and Cabbage Worms, Potato, Melon, Squash and Cucumber Bugs, Rose Slugs, Rose Lice, etc. 1 lb. carton, 20c; 5 lbs. 60c; 10 lbs. $1.15.

**SCALECIDE.** An asphaltum base petroleum oil from which the light inflammable and heavy lubricating oils have been removed, but leaving the natural sulphur in the oil, combined with sulphonated vegetable oils and naphthaline, and chemically treated to make it soluble or water-miscible. It mixes instantly with water and stays mixed.

Add one gallon of "Scalecide" to 15 gallons of water, stir, and you are ready to spray any kind of tree when the leaves are off, provided it is not too cold to be comfortable.

Use a fine spray nozzle and thoroughly wet the tree from the topmost twig down to the ground and around the base of the tree and you can rest assured that you will have accomplished everything you could with any other dormant spray or combination of sprays, and in addition, some things they cannot do.

If used according to directions, will kill every San Jose scale that comes in contact with it.

1 qt. 70c; 1 gal. $1.75; 5 gals. $6.00; 10 gals. $11.00; 30 gals. $39.00; 50 gals. $43.50.

**SULPHUR, POWDERED.** Used to prevent and cure mildew on plants. 1 lb. 15c; 2 lbs. 25c; 5 lbs. 50c; 10 lbs. 90c.

**SULPHO-TABACCO SOAP.** Destroys Black and Green Mealy Bug, Red Spider, etc., on Plants, Shrubbs and Trees. This is a contact remedy. 3 oz. cake 10c; (by mail 15c); 8 oz. cake 20c; (by mail 25c).

**TOBACCO DUST.** A sure remedy for Green Fly, Aphids, Beetles, etc. 1 lb. 10c; 5 lbs. 25c; 100 lbs. $3.00.

**TOBACCO DUST FOR FUMIGATING.** 1 lb. 10c; 3 lbs. 25c; 10 lbs. 60c; 25 lbs. $1.25; 100 lbs. $4.00.

**TOBACCO STEMS.** Used for fumigating plants to kill insects, and as a mulch for roses, asters, lettuce, etc. 1 lb. 5c; bale of about 125 lbs. $2.00.

**MOSS, PEAT, ETC.**

**MOSS, GREEN SHEET.** For hanging baskets, etc. Per lb. 40c; large bag $2.00.

**MOSS, SPHAGNUM.** For packing plants and growing Orchids, etc. Per lb. 15c; per bale. $2.50.

**PEAT, JERSEY.** Rotted. Per peck 40c; per bushel $1.50.

**POTTING SOIL.** This is a mixture especially prepared by us, and such as used at our green houses. It is suitable for all ordinary plants and bulbs. Peck. 30c; bu. $1.25.

**PREPARED BULB FIBER.**

Growing bulbs, such as Roman Hyacinths, Dutch Hyacinths, Tulips and Narcissus in special prepared fibre has proven a great success; we strongly recommend our customers to try a few of the various bulbs in this way. The bulbs are potted the same way as in ordinary soil, just showing their tops. Do not press the fibre tightly, otherwise the roots do not work freely. Once potted, they require hardly any attention, only care must be taken to keep the compost moist, but not too wet. Peck. 50c; bu. $1.75.
Horticultural Tools and Sundries

CANES. Six to eight feet long, for plant stakes; per 100.............. $1.75
CANES. Japanese, green dyed, 3 feet long; per 100.................. $1.75
GLASS CUTTER, ECLIPSE. The best cheap cutter on the market. Each, 15c; per dozen........ $1.50

GLAZING POINTS, PEERLESS. Will stop your glass from sliding, made of galvanized steel wire:

Per 1,000
No. 1. For small single-thick glass, 75c
No. 2. For large single-thick glass, 75c
No. 2 1/2. For double-thick glass, 75c

GLAZING POINTS, ZING CITY. Effective on large or small glass; easy to drive, easy to extract.

Per lb. ...................... 60c
KNIVES, PRUNING, $1.25 to $2.00
KNIVES, BUDDING, $1.00 to $1.75
KNIVES, ASPARAGUS, American 40c

LABELS, WOOD. For pots, painted, per 100, 40c; per 1000 2.00
4 x 3/8-inch........... $0.25 2.00
5 x 3/8-inch........... 0.25 2.50
6 x 3/8-inch........... 0.20 3.00
8 x 3/8-inch........... 1.00 8.50
10 x 3/8-inch........... 1.25 11.00
12 x 1 1/4-inch........ 1.50 13.50

LABELS. Tree, notched, copper wired; per 100, 40c; per 1,000 $3.00.

LABELS. Tree, copper, No. 1; per 100, $2.00; No. 2, per 100, $2.50

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........ $22.50

LAMP, DEFIANCE FUMIGATING
(For use in greenhouses.)
It burns kerosene. Used by prominent Market Gardeners all over the country.
Each, 65c; per dozen, $6.75.

MASTICA. For glazing greenhouses.
One gallon will cover about 300 running feet (one side).
One gallon........... $2.90.

MASTICA GLAZING MACHINE........ $2.90.

MATS, HOTBED—Strong Burlap. Indestructible and warm. Size, 76 x 76 inches............... $3.75

MATTOCK, LONG CUTTER. With handle.................. $1.75

MATTOCK, CRONK’S GARDEN........... $0.90

PLANT BED CLOTH. A substitute for glass, answering many uses equally well:
Light Grade, per yard........ 15c
Heavy Grade, per yard........ 40c
Write for special prices on large lots.

PRUNING KNIVES, TREE—Kansas Improved.
Price.................. $3.00

PRUNING KNIVES, TREE—Happy Thought.
Price, 6 ft. .................. $1.50
8 ft. .................. $1.75
10 ft. .................. $2.00

PRUNING KNIVES, TREE—Detroit.
Price, 6 ft. .................. $1.50
8 ft. .................. $1.75

PRUNERS, LITTLE GIANT TREE.
To use on a pole.
Price.................. $1.00

PRUNING SHEARS, CLYDE.
No. 1 .................. $2.75
No. 2 .................. 2.50

PRUNING SHEARS, HAND
California Pattern. 9-inch........ $1.00
Wiss Heavy. Fine quality, 9-in........ $3.00
Ladies’ Hand................ $1.50

PUTTY, PEERLESS BLACK GLAZING." For glazing greenhouses. Remains flexible and pliable for years. Galton........ $1.75

PUTTY, TWEMLOW’S LIQUID GLAZING. For bedding glass in sash. One gallon will cover about 600 running feet (one side). Galton........ $3.25

PUTTY BULB. A useful tool for applying liquid putty and glazing greenhouses........ $1.25

RAFFIA, NATURAL. The best tying material for plants, also used for making hats, baskets, etc.
Per lb., 50c; 5 lbs., $2.00

RAFFIA, COLORED. For making baskets and fancy work in following colors: Black, Orange, Pink, Red and Yellow.
1 oz., 15c; 1 lb., $1.25

SASH, HOTBED, UNGLAZED. Made from strictly clear cypress lumber. White lead used on the tendons, and iron dowel pins at the corners:
No. 1. 3x6 ft., three rows, 10-inch glass. Each, $1.00; dozen, $15.00

SAWS, PRUNING. 16-inch........ 90c
18-inch.................. $1.00

SAWS, PRUNING. Double edge........ $1.00

SAWS, PRUNING, Disston........ $2.00

SEED SOWER, LITTLE GIANT. For sowing wheat, oats, rye, flax, grass seed, clover seed, etc.; in fact any kind of seed broadcast. It weighs but three pounds...... $2.25

SPRINKLER, RUBBER, SCOL- LAY’S. Indispensable for floral work and window gardening. Large size........ $1.25

THERMOMETERS. Hotbed or Mushroom........ $2.50
WATERING POTS, GALVANIZED. Made from best quality of iron, and heavily galvanized. Two roses with each pot for fine and coarse watering.
Long Spout, 4 quart, $3.25; 6 quart, $3.50; 8 quart, $3.75; 10 quart, $4.00; 12 quart, $4.50.

WAX, GRAFTING. 1/4 lb., 15c; 1/2 lb., 20c; 1 lb., 30c.

WIRE FOLDING PLANT STANDS.
The construction of the shelves or trays is such that there is more room for the pots and foliage than any other plant stand that takes the same amount of room on the floor.
3-Tray Wire Stand—Trays 7 1/2 inches wide x 30 inches long........ $2.75
2-Tray Wire Stand—Trays 7 1/2 inches wide x 30 inches long........ $2.75
1-Tray Wire Stand—Tray 10 inches wide x 24 inches long........ $1.75

WIRE WINDOW SHELF FOR PLANTS. Strong, compact, with adjustable steel brackets; can be applied to any window moulding on the part of same. Brackets are constructed so as to allow for curtains between window and plants.
56-inch Shelf, by 7 1/2 inches wide, with Brackets complete........ $1.25
42-inch shelf, by 7 1/2 inches wide, with Brackets complete........ $1.50

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.
### Flower Pots and Saucers

Our Flower Pots and Saucers are standard make, of extra fine finish, and bear shipping well.

No Charge for Packing.

#### Flower Pots

<table>
<thead>
<tr>
<th>Size</th>
<th>Ea</th>
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<th>Per 100</th>
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#### Flower Pot Saucers

<table>
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<td>.25</td>
<td>2.50</td>
<td>25.00</td>
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#### Azalea Flower Pots

These are the same style as our standard Flower Pots, but not so deep. Suitable for Azaleas, Bulbs, Ferns, Spireas, etc.

<table>
<thead>
<tr>
<th>Size</th>
<th>Ea</th>
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#### Round Seed Pans

These are the same style as our standard Pots, but not so deep, and suitable for Cacti, Begonias, Tulips, etc.

<table>
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<tr>
<th>Size</th>
<th>Ea</th>
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<th>Per 100</th>
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<td>80.00</td>
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### Fern Pans

These Pans are especially adapted for linings to porcelain and Silver Fern Pans.

<table>
<thead>
<tr>
<th>Size</th>
<th>Ea</th>
<th>Doz</th>
<th>Per 100</th>
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</thead>
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<tr>
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<tr>
<td>7½</td>
<td>.15</td>
<td>1.50</td>
<td>12.50</td>
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### Fibrotta Flower Pot Saucers

Light and not readily broken, easy to clean and with a surface that will not scratch woodwork, as earthenware does, and they do not sweat through and mould.

#### Fibrotta Rolling Stands

The device consists of two steel pieces securely riveted and equipped with casters; a strong and compact support for plants, and can be readily rolled about from place to place without injuring the floor or carpet.

#### Maytree Moisture Proof Flower Pot Saucers

Maytree flower-pot saucers are superior in every way to all kinds of flower-pot saucers—practically non-destructible and should last forever.

<table>
<thead>
<tr>
<th>Size</th>
<th>Ea</th>
<th>Doz</th>
<th>Per 100</th>
</tr>
</thead>
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<tr>
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<td>14</td>
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### McCullough's Plant Tubs

Made of seasoned selected Virginia White Cedar, bound with steel hoops. Painted green, inside and out, and top edge finished with round bevel. No feet, but furnished with iron handles.

<table>
<thead>
<tr>
<th>Size</th>
<th>Price</th>
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<tbody>
<tr>
<td>7-12 inches diameter, 11 inches high</td>
<td>$1.75</td>
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<tr>
<td>8-13 inches diameter, 12 inches high</td>
<td>$2.00</td>
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<tr>
<td>10-15 inches diameter, 13 inches high</td>
<td>$2.10</td>
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<tr>
<td>12-17 inches diameter, 14 inches high</td>
<td>$2.25</td>
</tr>
<tr>
<td>14-19 inches diameter, 15 inches high</td>
<td>$2.50</td>
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</table>

### Cedar Plant Tubs

Made of seasoned selected Virginia White Cedar, bound with steel hoops. Painted green, inside and out, and top edge finished with round bevel. No feet, but furnished with iron handles.

<table>
<thead>
<tr>
<th>Size</th>
<th>Price</th>
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<tbody>
<tr>
<td>7-12 inches diameter, 11 inches high</td>
<td>$1.40</td>
</tr>
<tr>
<td>8-13 inches diameter, 12 inches high</td>
<td>$1.60</td>
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<tr>
<td>10-15 inches diameter, 13 inches high</td>
<td>$2.00</td>
</tr>
<tr>
<td>12-17 inches diameter, 15 inches high</td>
<td>$2.25</td>
</tr>
<tr>
<td>14-19 inches diameter, 17 inches high</td>
<td>$2.50</td>
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</tbody>
</table>
CATALOGUE

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.

Our model hutlets and cabins which we provide for these charming entertainers are appreciated by all bird lovers.

PRICE LIST HUTS AND CABINS

<table>
<thead>
<tr>
<th>Hut or Cabin</th>
<th>Price</th>
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<tbody>
<tr>
<td>Wren Hutlet</td>
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<tr>
<td>Titmouse Hut</td>
<td>$1.50</td>
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<tr>
<td>Chickadee Hutlet</td>
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</tr>
<tr>
<td>Woodpecker and Flicker Hut</td>
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<tr>
<td>Martin Houses</td>
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<tr>
<td>Feeder, Large</td>
<td>15.00 to 35.00</td>
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<tr>
<td>Feeder, Small</td>
<td>1.50 to 2.00</td>
</tr>
<tr>
<td>Carved and Hewn Hut</td>
<td>5.00 to 25.00</td>
</tr>
<tr>
<td>Squirrel Cabins</td>
<td>4.00 to 10.00</td>
</tr>
</tbody>
</table>

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. $8.00

MALTOID MILK-BONE

Dogs cannot and do not properly digest the same foods as human beings. Maltoid Milk-Bone is scientifically compounded and a perfectly balanced ration, composed of all the good things which a dog enjoys and can be fed exclusively, making happy and contented dogs and puppies.

Put up in sanitary and economical packages, insuring freshness.

Made in sizes for dogs and puppies. 20c pkg., mailing weight 1 lb; 35c pkg.; mailing weight, 3 lbs.; postage extra, see postal rates—2nd page of cover.

MALTODE MILK-BONE

PAT. JAN. 24, 1911

SPRATT'S PATENT DOG AND PUPPY CAKES

REQUIRE no preparation, no trouble, no cooking, and are adapted for all breeds of dogs. They are invaluable as a change of food during the warm weather, and are used by the leading kennel owners and breeders throughout the world. Kennel owners look upon these cakes as a necessity, especially during the summer months.

SPRATT'S PATENT DOG CAKES. 2 lbs., 30c; 25 lbs. $3.30; 50 lbs. $6.25; 100 lbs. $11.75.

SPRATT'S PATENT PUPPY CAKES. 2 lbs., 30c; 25 lbs. $3.40; 50 lbs. $6.50; 100 lbs. $12.25.

CARBOLA The Disinfecting White Paint

Use It Instead of Whitewash and Disinfectants

The convenience with which Carbola is mixed and applied, the better results it gives, the saving of time and labor it effects, its low cost, the absence of disagreeable odor and the fact that it does not blister, flake or peel off, are a few of the many reasons why it has earned the endorsement of many U. S. Experiment Stations and best known and most carefully conducted poultry, dairy and breeding farms.

PRICES—Trial package, 30 cents; (Paints and disinfects 200 square feet.)
10 pounds, (10 gallons), $1.25; 20 pounds, (20 gallons), $5.00.

SUET BASKETS

WINTER and Summer, you'll find a happy family of wild birds around you, provided you feed them. It's got a metal back, curved to fit a tree trunk or post that protects the tree from injury.

The stuffing of the basket portion is the work of an instant. Suet or beef trimmings is the best packing. In spring you can fill a part with hair, twine, feathers and cotton (nesting materials). Place the basket on the shady side in Summer, and the sunny side in Winter. Weight, 2 lbs. Price, each, $1.00; postage extra.
Poultry Feeds and Supplies

SPECIAL NOTICE

Prices quoted represent market values at time of going to press only.

Market fluctuations prevent us quoting firm prices on Feeds in our Catalogues, but we are always prepared to quote firm prices upon receipt of an estimate of your wants. None of our Feeds contain grit.

Prices quoted in terms of 100 lbs. for delivery to Express or Freight depots here, purchaser paying transportation charges. Postage must be added if wanted by mail.

"GLOBE" CHICK MASH WITH BUTTERMILK 3 lbs., 30c; 25 lbs., $2.05; 50 lbs., $3.75; per bag of 100 lbs., $6.75.

"GLOBE" CHICK FEED 3 lbs., 25c; 25 lbs., $1.80; 50 lbs., $3.20; per bag of 100 lbs., $5.85.

"GLOBE" DEVELOPING FEED 3 lbs., 25c; 25 lbs., $1.80; 50 lbs., $3.25; per bag of 100 lbs., $5.75.

"GLOBE" SCRATCH FEED 3 lbs., 25c; 25 lbs., $1.75; 50 lbs., $3.15; per bag of 100 lbs., $5.85.

"GLOBE" EGG MASH 3 lbs., 25c; 25 lbs., $1.80; 50 lbs., $3.25; per bag of 100 lbs., $5.75.

PURINA CHICKEN CHOWDER 3 lbs., 25c; 25 lbs., $1.80; 50 lbs., $3.20; per bag of 100 lbs., $5.85.

SPRATT'S CHICK MEAL 2 lbs., 30c; 25 lbs., $3.00; 50 lbs., $5.65; per bag of 100 lbs., $10.50.

SPRATT'S POULTRY MEAL 2 lbs., 30c; 25 lbs., $3.00; 50 lbs., $5.65; per bag of 100 lbs., $10.50.

SPRATT'S TURKEY MEAL GAME MEAL AND PHEASANT MEAL 2 lbs., 30c; 25 lbs., $3.00; 50 lbs., $5.65; per bag of 100 lbs., $10.50.

PRR'S BABY CHICK FOOD 3-lb. pkg., 30c.

PINEAPPLE MEAL 1-1/2-lb. pkg., 60c; 14-lb. bag, $1.20.

PINHEAD OATS 3 lbs., 30c; 25 lbs., $2.40; 50 lbs., $4.50; per bag of 100 lbs., $8.25.

HULLED OATS 3 lbs., 30c; 25 lbs., $2.40; 50 lbs., $4.50; per bag of 100 lbs., $8.25.

DIAMOND GLUTEN MEAL 4 lbs., 25c; 25 lbs., $1.55; 50 lbs., $2.80; per bag of 100 lbs., $4.85.

SUNFLOWER SEED Per lbs., 15c; 25 lbs., $1.80; per bag of 100 lbs., $3.60.

ALFALFA MEAL 4 lbs., 25c; 25 lbs., $1.30; 50 lbs., $2.25; per bag of 100 lbs., $3.75.

MEAT SCRAP 50% Protein 3 lbs., 30c; 25 lbs., $2.20; 50 lbs., $4.60; per bag of 100 lbs., $7.35.

DIGESTER TANAGE 60% Protein 2 lbs., 30c; 25 lbs., $2.25; 50 lbs., $4.15; per bag of 100 lbs., $7.55.

BLOOD MEAL 80% Protein 2 lbs., 30c; 25 lbs., $3.15; 50 lbs., $5.95; per bag of 100 lbs., $11.90.

GRAINED BONE Furnished in three sizes; fine medium and coarse. 3 lbs., 25c; 25 lbs., $1.80; 50 lbs., $3.25; per bag of 100 lbs., $5.75.

CHARCOAL Furnished in three sizes; fine, medium and coarse. 6 lbs., 25c; 25 lbs., $1.60; per bag of 100 lbs., $3.20.

MIG CRYS TIRH Furnished in three sizes; fine, medium and coarse. 6 lbs., 25c; 25 lbs., $1.60; 50 lbs., $1.15; per bag of 100 lbs., $1.35.

No charge for bags on any of the above Feeds.

Miscellaneous Feeds

BARLEY, for feed 4 lbs., 25c; 25 lbs., $1.45; 50 lbs., $2.55; per bag of 100 lbs., $4.60.

BRAN 4 lbs., 25c; 25 lbs., $1.35; 50 lbs., $2.35; per bag of 100 lbs., $4.15.

BROIL MEAT for feed 3 lbs., 25c; 25 lbs., $1.80; 50 lbs., $3.30; per bag of 100 lbs., $6.60.

CORN MEAL 4 lbs., 25c; 25 lbs., $1.45; 50 lbs., $2.60; per bag of 100 lbs., $4.65.

CRACKED CORN 4 lbs., 25c; 25 lbs., $1.45; 50 lbs., $2.60; per bag of 100 lbs., $4.65.

CORN, SHELL Ed 4 lbs., 25c; 25 lbs., $1.40; 50 lbs., $2.45; per bag of 100 lbs., $4.35.

KAFIR-CORMWhite 3 lbs., 25c; 25 lbs., $1.55; 50 lbs., $2.80; per bag of 100 lbs., $4.90.

MIDDINGS 3 lbs., 25c; 25 lbs., $1.60; 50 lbs., $2.65; per bag of 100 lbs., $4.75.

MILYO MAIZE 4 lbs., 25c; 25 lbs., $1.40; 50 lbs., $2.45; per bag of 100 lbs., $4.35.

No charge for bags on any of the above Feeds.

Prices on all Poultry Feeds and Supplies Subject to change Without Notice.

Write for Special Firm Prices on Lots of 5 Bags or Over.

O. K. Poultry Litter

A DEODORIZER, ABSORBENT, DISINFECTANT, ECONOMICAL AND LABOR SAVING.

O. K. POULTRY LITTER is imported and is especially adapted as a litter in Scratching Pens and for catching droppings under perches. Many prominent European Poultry Raisers have used it for years and we have imported large quantities of it for several of the leading breeders in this country.

One bale will cover about 80 square feet 3 inches deep. Per bale, $1.50; per bu., $1.25.

Mustard for Poultry

FRENCH'S POULTRY MUSTARD 1/2 lbs., 55c; 3 lbs., $1.00; 5 lbs., $1.65; 10 lbs., $3.25; 25 lbs., $7.80.

Blatchford's Calf Meal

BLATCHFORD'S CALF MEAL 25 lbs., $2.00; 50 lbs., $3.35; 100 lbs., $6.65.

Darling's Meat Crisps

DARLING'S MEAT CRISPS 3 lbs., 50c; 6 1/2 lbs., $1.00; 25 lb. ball, $3.50.

This is a pure condensed Buttermilk Feed for Poultry and Hogs, and being modified will keep an indefinite length of time in any climate, will not mould, sour, or lose its acidity.

Prices.—Per gal., $2.00; 5 gals., $7.50; 10 gals., $12.50. No charge for kegs or barrels. Send for descriptive booklet.

Poultry Appliances

Lack of space prevents us describing the numerous Appliances we handle, but will quote interesting prices on—Prairie State Incubators and Brooders; Buckeye Incubators and Brooders; Newtown Giant Coal and Oil Burning Brooders; Red Chief Grinding Mills; Mann's Green Bone Cutters; Oat Sprouters; Fountains; Feeding Devices, etc.

"United States Food Administration License Number G-18737."
Bean Power Spraying Outfits

THE accompanying illustration presents a view of the Bean Power Sprayer. These sprayers are made in several sizes to meet all the requirements of orchardists, whether orchards are large or small. They have proved to be economical, labor-saving and more thorough in applying insecticide than any other device on the market.

"WHY the BEAN is the BEST"

FIRST—The Bean Pressure Regulator maintains a uniform pressure; saves fuel and wear of engine; is safe and dependable; makes possible the removal of any valve in the pump while full pressure is maintained on the air chamber, and while engine is operating.

SECOND—The Bean Threadless Ball Valves (Reversible and Interchangeable Seats) may be removed without stopping engine; no threads; saves time; valves easily cleaned.

THIRD—Porcelain lined Cylinders, guaranteed to last the life of the pump.

FOURTH—Underneath suction; tanks easily emptied; engine throws more liquid with less power.

FIFTH—Only pump without stuffing box—This saves labor and trouble.

SIXTH—Bean Eccentrics increase the life of the pump and the durability of the outfit.

SEVENTH—One piece steel bedplate—makes outfit rigid, durable and light.

EIGHTH—The Bean rocking bolster; special truck reduces weight of outfit; adjustable on all kinds of ground.

NINTH—Novo Engine; simple to operate; runs under all conditions; may be removed from outfit and used for other purposes.

TENTH—Bean refiller; saves time and labor; simple to operate; one man can fill the spray tank in 5 minutes. Besides these features the Bean equipment has many other strong points which the fruit growers should consider before purchasing an outfit.

Descriptive catalogue giving detailed information, mailed upon request.

Send for descriptive circulars giving full information.

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