Historic, archived document

Do not assume content reflects current scientific knowledge, policies, or practices.
TOMATO
P-W S
KING OF THE EARLIES
SEE PAGE 79

Porter-Walton Company
Salt Lake City, Utah.
P-W'S MOUNTAIN GROWN SEEDS AND TREES ARE HARDIER
About Prices and Delivery

(The Prices in This Catalog Cancel All Previous.)

All quotations, unless otherwise noted, are based on prepaid charges by us to your express or post office. Safe delivery is positively guaranteed. You are therefore, as close to us as your post office or railway station. These prices are as reasonable as we can sell in the quantities specified and will be adhered to during the season or as long as the stocks last.

Trees and seeds in quantity, poultry, supplies, etc, quoted “Not Prepaid” are F.O.B. Salt Lake City, and purchasers pay expenses of freight, express or parcel post. If wanted by parcel post, always send postage with the order. See back of “order blanks” to ascertain the amount of postage.

The Order Blanks attached to this catalog will be convenient for customers and facilitate our filling orders (extra ones mailed free on request). Use the “Tree Order” sheet when ordering shrubs and trees—pages 3 to 20—these being filled at our Nurseries, though all can be shipped together when advisable. On all other items Seeds, Bulbs, Poultry and Miscellaneous Supplies, etc., listed on pages 20 to end of catalog inclusive, please use the “Seed” order blank. This will greatly help us in the dispatch of your orders.

ORDER EARLY

In January and February, if possible, before the Spring rush begins. March and April are our busy months and our full force works almost day and night under high speed. We allow 5% discount for the privilege of filling your order BEFORE MARCH 1. On all orders from this catalog reaching us during January and February this discount will apply; thereafter no deductions allowable.

Seed Testing

Aside from the field tests to maturity carried on at our Centerville trial grounds, testing for germination is done in our green-houses in soil. This is the fairest method possible since only plants that actually grow and come above ground are counted.

Not only is everything tested as fast as it comes into the warehouse, but tests are made from month to month as stocks might be carried over. Thousands of these germination tests are made every year, all are carefully recorded and no stock of anything is used to supply our customers which does not show a satisfactory germination test.

It is not enough that we have the intent to please and satisfy our customers—we have the system and organization that cut mistakes to a minimum and insure the best obtainable anywhere for our customers.

Your patronage is solicited with the assurance that every packet, yes every tiny seed or anything else you receive labeled PORTER-WALTON has behind it the integrity and stability of a responsible house, characterized by dependable quality, high efficiency and a desire to please.

Yours for a Wonderful Garden,

PORTER WALTON COMPANY,
Gen. Offices, Store and Mail Order Dept.
Richards St. at First South Street
Salt Lake City, Utah
ORDER SHEET FOR SEEDS, ETC.
PORTER-WALTON CO.
SALT LAKE CITY, UTAH

To (Name) __________________________________________________________
P. O. Box, Street ______________________________________
or Rural Delivery _____________________________________________
Post Office ______________________________________________________
County __________________________________; State __________________
Station or Express Office _______________________________________
(Only if different from P. O.)
Date ________________________, 192____ Send By _______________________

THE AMOUNT ENCLOSED
Money Order, $ ______________________
Check _________________________
Stamps, ________________________
Cash, _________________________

<table>
<thead>
<tr>
<th>V</th>
<th>QUANTITY</th>
<th>SEEDS, BULBS, POULTRY SUPPLIES AND SUNDRIES</th>
<th>PRICE</th>
<th>AMOUNT</th>
</tr>
</thead>
<tbody>
<tr>
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</tbody>
</table>

WARRANTY AND RESPONSIBILITY FOR CROP
What is stated on Catalog regarding this is always a condition of the sale of anything in the Seed and Nursery line.

ABOUT POSTAGE
If you wish order sent by Parcel Post see table on back of this sheet to ascertain amount to remit for Postage. We pay postage on Garden and Flower Seeds unless otherwise specified.

ORDER NO. ________________________
Received ________________________ 192____
Amt. $ ________________________
By ________________________

PLEASE USE THIS SHEET FOR SEED, BULBS, POULTRY SUPPLIES, ETC.

(Over) Amount carried forward

EXTRA ORDER SHEETS FREE—ASK FOR THEM.
If by mail remit Postage on all items not postpaid.
Amount for Postage
Total Amount Sent

Parcel Post Rules, Etc.

<table>
<thead>
<tr>
<th>Zone</th>
<th>1st—Within 50 miles</th>
<th>2nd—Within 50 to 100 miles</th>
<th>3rd—Within 100 to 200 miles</th>
<th>4th—Within 200 to 500 miles</th>
<th>5th—Within 500 to 1,000 miles</th>
<th>6th—Within 1,000 to 1,500 miles</th>
<th>7th—Within 1,500 to 1,800 miles</th>
<th>8th—All over 1,800 miles</th>
</tr>
</thead>
<tbody>
<tr>
<td>1e</td>
<td>6c</td>
<td>10c</td>
<td>1c</td>
<td>8c</td>
<td>12c</td>
<td>1d</td>
<td>8c</td>
<td>12c</td>
</tr>
</tbody>
</table>

The Maximum Weight allowable in local and to the First, Second and Third zones is 70 pounds, and to all other zones is 50 pounds.

The size of the Parcel must not exceed 84 inches for combined length and girth.

Money should always accompany order. On small amounts we accept 2-cent postage stamps the same as cash. Goods Wanted C. O. D. must have at least 25 per cent of the amount accompany the order. Patrons signing orders are requested to use prefix, Mr., Mrs. or Miss. Married ladies please invariably use husband's initials.

The following are persons, I think, will likely purchase something in your line this year and would appreciate your Catalog.

ADDRESS

We will include some extra Seeds or Bulbs for above Courtesy.

SHIPPING MEMORANDUM

<table>
<thead>
<tr>
<th>No. Pkgs. Mail</th>
<th>Total Postage</th>
<th>Freight B/L No.</th>
<th>Express B/L No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>No. Pkgs. Freight</td>
<td>No. Pkgs. Express</td>
<td>Laid Out By</td>
<td>Checked By</td>
</tr>
<tr>
<td>Shipped Via</td>
<td>Date</td>
<td>Shipping Clerk</td>
<td></td>
</tr>
</tbody>
</table>
A mid-season snapshot showing one of our fields of one-year-old Peach Trees at our Centerville Nursery. Like all the rest of our Fruit Stock, the above were budded from the choicest bearing trees, critically selected and carefully labeled by our expert nurserymen. The painstaking care in selecting scions is one of the reasons why Fruit Stocks wearing our label are so dependable.

FRUIT TREES

At our Centerville Nurseries we have a particularly fine lot of strong, healthy fruit trees. This stock has been selected and critically grown to meet the requirements of orchardists planting for eastern or local markets. We believe, also, those of our patrons who are planting a small orchard for home use will find sufficient variety to supply all every want in the fruit line.

Average weight of Fruit Trees packed for shipment as an aid to determine carriage charges: The general run of fruit trees, either in bales or cases, average about as follows: 6 to 8 ft., 3 lbs. each; 4 to 6 ft., ½ lbs. each; 4 to 4 ft., 1 lbs. each; 2 to 3 ft. one-half of a lb. each. Grapevines, one-third of a lb. each.

FULL DIRECTIONS FOR CARE AND PLANTING FREE WITH EACH ORDER

It is very easy to transplant trees successfully if these directions are followed:

With "Our Quality Trees" the most inexperienced men can set out orchards with the highest degree of success. Experience has taught us that 90 per cent of the trees that will do so because the persons who planted them did not have directions for transplanting to follow, or did not follow the ones they had. Were it possible for us to plant and care for the stock we send out we would willingly ensure the growth of every tree and plant. These directions are invaluable to you, for if they are followed your trees, plants, etc., can be set out with the surety of a reasonable degree of success.

Certificate of Inspection, showing freedom of our stock from San Jose and other injurious insects and diseases, will be attached to all shipments.

GUARANTEE OF GENUINENESS

Our Fruit Trees are all budded or grafted from bearing trees, and every care and precaution is exercised to have them true to name. With all our caution, mistakes are liable to be made; but we hold ourselves in readiness, on proper proof, to replace all trees and other stock that may prove untrue to label, free of charge, or refund the amount paid. It is mutually understood and agreed to between the purchaser and ourselves, however, that our guarantee of genuineness shall, in no case make us liable for any greater sum than that originally paid by us for the trees, etc., which may prove untrue.

GUARANTEE OF SAFE ARRIVAL IN GROWING CONDITION

Our trees and shrubs are most carefully inspected for vitality before orders are dispatched and carefully packed to endure the journey so they should reach you in "A-1" shape for planting. We are not responsible for damage to goods in transit, therefore you must examine at the express or freight office and have any damage noted upon your express or freight receipt. We are always glad to replace goods injured in transit, providing receipt showing damage is returned to us so that we may enter claim and reimburse ourselves.

After stocks have been received and planted, failure to grow is entirely at the risk of the purchaser as we have no control over the planting, soil, culture, or the enemies of plant life and therefore can assume no liability whatsoever regarding the continued growth and can make no replacements in case of failure.

"TEN COMMANDMENTS"

Here are the "Ten Commandments of Tree Planting" as given by an eminent horticultural authority:

1. Do not allow roots to be exposed to the sun, drying winds or frost.
2. Prune with a sharp, clean cut any broken or injured roots.
3. Have the holes large enough to admit all the roots without cramping.
4. Plant in fine loam, enriched with thoroughly decomposed manure.
5. Do not allow any green unfermented manure to come in contact with roots.
6. Spread out the roots in their natural position and work fine loam among them, making it firm and compact.
7. Do not plant too deep. Let roots be set two or three inches lower than before.
8. Remove all broken branches and cut back at least one-half of the previous year's growth of wood.
9. If the season lacks the usual rainfall water thoroughly twice a week.
APPLES

"The King of Fruits"—"An Apple a Day Keeps the Doctor Away"

No other fruit succeeds over so wide a range of territory and under such diversified climatic conditions, and no other fruit brings so sure a return to the grower in proportion to time and money expended upon its production. It has few rivals among cultivated fruits. Its mild and pleasant acid is a panacea for many of the ills that the human race is heir to. No fruit can be more pleasant to the palate or more beautiful to the eye than the rich, ripe apple when plucked from the tree, or more dubious and healthful when cooked.

The grades and prices are as follows:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Caliper</th>
<th>Each</th>
<th>100</th>
</tr>
</thead>
<tbody>
<tr>
<td>Extra Heavy</td>
<td>5-7 ft.</td>
<td>2-yr.</td>
<td>11/16&quot; and up</td>
</tr>
<tr>
<td>Standard</td>
<td>4-6 ft.</td>
<td>2-yr.</td>
<td>9/16&quot; to 11/16&quot;</td>
</tr>
<tr>
<td>Mail Size</td>
<td>3-4 ft.</td>
<td>1-yr.</td>
<td>7/16&quot; to 9/16&quot;</td>
</tr>
<tr>
<td>&quot;</td>
<td>3-4 ft.</td>
<td>1-yr.</td>
<td>7/16&quot; to 9/16&quot;</td>
</tr>
<tr>
<td>&quot;</td>
<td>2-3 ft.</td>
<td>1-yr.</td>
<td>5/16&quot; to 7/16&quot;</td>
</tr>
</tbody>
</table>

See page 7 to determine the number of trees required for an acre.

Summer

<table>
<thead>
<tr>
<th>Variety</th>
<th>Medium, oblong, red; flesh white and juicy, sub-acid. Ripens in July.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Red June</td>
<td>Medium, oblong, red; flesh white and juicy, sub-acid. Ripens in July.</td>
</tr>
<tr>
<td>Yellow Transparent</td>
<td>One of the earliest, pale yellow when ripe; good quality. Ripens late in cold climates. Ripens in July.</td>
</tr>
</tbody>
</table>

Autumn

<table>
<thead>
<tr>
<th>Variety</th>
<th>Yellow; large, very large. Ripens in September.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gravenstein</td>
<td>Yellow red striped, very large. Ripens in September.</td>
</tr>
<tr>
<td>Maiden's Blush</td>
<td>Medium size, pale yellow with beautiful red cheek.</td>
</tr>
<tr>
<td>Twenty Oz. Pippin</td>
<td>Large yellow and striped. Good cooking apple.</td>
</tr>
</tbody>
</table>

Delicious Apple

Varieties

<table>
<thead>
<tr>
<th>Variety</th>
<th>Rich, dark red; flesh orange yellow. Ripens in October.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arkansas Black</td>
<td>Rich, dark red; flesh orange yellow.</td>
</tr>
<tr>
<td>Baldwin</td>
<td>Large, bright red, crisp, juicy, rich.</td>
</tr>
<tr>
<td>Bellefleur, Yellow</td>
<td>Large, oblong, yellow. Ripens October to January.</td>
</tr>
<tr>
<td>Delicious</td>
<td>Large, handsome winter apple, delightful flavor. Ripens late fall.</td>
</tr>
<tr>
<td>Gano</td>
<td>Good size, deep red, attractive; good keeper and shipper.</td>
</tr>
<tr>
<td>Golden Russet</td>
<td>Good medium sized early winter apple. Russet brown turning golden yellow when ripe. Excellent flavor.</td>
</tr>
<tr>
<td>Grimes Golden Pippin</td>
<td>Rich, golden-yellow; flesh tender, juicy and rich. November to December.</td>
</tr>
<tr>
<td>Jonathan</td>
<td>Probably the best apple in regard to flavor and quality ever grown in America. Deep red.</td>
</tr>
<tr>
<td>Mammoth Black Twig</td>
<td>Very large, dark red, slightly streaked.</td>
</tr>
<tr>
<td>McIntosh Red</td>
<td>Large, all red: good keeper.</td>
</tr>
</tbody>
</table>

Winter

<table>
<thead>
<tr>
<th>Variety</th>
<th>Fruit large, bright yellow; fine grained. Northern Spy — Large, striped, mild sub-acid and tender, with a rich, delicious flavor.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Northern Greening</td>
<td>Fruit large, bright yellow; fine grained.</td>
</tr>
<tr>
<td>Winter Pippin</td>
<td>Fruit large, bright yellow; fine grained. Ripens late fall to early winter.</td>
</tr>
<tr>
<td>Winter Pippin</td>
<td>Fruit large, bright yellow; fine grained. Ripens late fall to early winter.</td>
</tr>
<tr>
<td>Winter Pippin</td>
<td>Fruit large, bright yellow; fine grained. Ripens late fall to early winter.</td>
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<td>Fruit large, bright yellow; fine grained. Ripens late fall to early winter.</td>
</tr>
<tr>
<td>Winter Pippin</td>
<td>Fruit large, bright yellow; fine grained. Ripens late fall to early winter.</td>
</tr>
</tbody>
</table>

Quince

<table>
<thead>
<tr>
<th>Variety</th>
<th>Large: roundish, with short neck; beautiful bright golden yellow; an old favorite for making jelly. Standard size, $1.25 each; $10.00 per 10.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Orange Quince</td>
<td>Large: roundish, with short neck; beautiful bright golden yellow; an old favorite for making jelly.</td>
</tr>
</tbody>
</table>

Nut Trees

| Variety | Very popular variety nuts, large and plump. Each, $1.00; $9.00 per 10. American Black Walnut | | American Black Walnut | 3-5 ft. Each, $2.00; $15.00 per 10. |
|---------|-------------------------------------------------------------------------------------------------|
| Soft Shell Almonds | Very popular variety nuts, large and plump. Each, $1.00; $9.00 per 10. American Black Walnut | | American Black Walnut | 3-5 ft. Each, $2.00; $15.00 per 10. |
| Utah English Walnuts | Hardy in any section or situation where apricots and peaches can be grown. 2-3 feet—Each, $1.25; $10.00 per 10, charges prepaid. 3-4 feet—Each, $2.00; $15.00 per 10, prepaid. 4-6 feet—Each, $3.50; $20.00 per 10, prepaid. |

Every Orchardist is vitally interested in keeping his trees free from Insects, Pests and Diseases. We carry a most complete line of Insecticides, Fungicides, and Spray Pumps and Dusters for every purpose. See pages 83-86 inclusive.
**CHERRIES**

Should be planted in light, well drained soils. There is always a brisk market demand, and in localities where they can be grown to home orchard is complete without a few "sweet" and one or more "sour" or Pie Cherry trees. Prices according to grade are as follows:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Caliper</th>
<th>Each</th>
<th>10</th>
<th>100</th>
</tr>
</thead>
<tbody>
<tr>
<td>Extra</td>
<td>5-7 ft. 11/16&quot; and up</td>
<td>$1.25</td>
<td>$10.00</td>
<td>$....</td>
</tr>
<tr>
<td>Standard</td>
<td>4-6 ft. 9/16&quot; to 11/16&quot;</td>
<td>.70</td>
<td>5.50</td>
<td>50.00</td>
</tr>
<tr>
<td>Mall Size</td>
<td>3-4 ft. 7/16&quot;</td>
<td>.45</td>
<td>3.50</td>
<td>35.00</td>
</tr>
</tbody>
</table>

**SWEET CHERRIES**

*Black Tartarian—Very large, purplish-black, mild and sweet.* Ripens first of July.

*Winsor—Very large, heavy bearer; beautiful dark color, almost black.*

**SOUR CHERRIES**

*Early Richmond—Medium, dark red; melting juicy.*

*Montmorency—Large red. Late June to July.*

*Reinette—Sweeter and larger than May Duke. Color deep red. Ripens in August.*

**PEACHES**

The cultivation of this noble fruit is extending as its value is appreciated. One important point in the management of the peach is to gather fruit in the proper time. Summer peaches should be gathered at least ten days before they are ripe; and August peaches at least a fortnight. Winter varieties may be left until there is danger of frost. Place in a dark room until fully matured. The pear succeeds on most soils, but probably does better on rather sandy loam. Prices according to grade as follows:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Caliper</th>
<th>Each</th>
<th>10</th>
<th>100</th>
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<tbody>
<tr>
<td>Extra</td>
<td>5-7 ft. 11/16&quot; and up</td>
<td>$1.00</td>
<td>$8.50</td>
<td>$....</td>
</tr>
<tr>
<td>Standard</td>
<td>4-6 ft. 9/16&quot; to 11/16&quot;</td>
<td>.70</td>
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<td>50.00</td>
</tr>
<tr>
<td>Mall Size</td>
<td>3-4 ft. 7/16&quot; to 9/16&quot;</td>
<td>.45</td>
<td>3.50</td>
<td>35.00</td>
</tr>
</tbody>
</table>

**ELBERTA**—A leading market variety. Large, heavy, bright yellow overspread with crimson; juicy, fine shipper. Freestone.

*Carman—Color creamy white or pale yellow, with deep blush; freestone. August to September.*

*Dal's Cling—New, Large, handsome, deep red of rich, luscious flavor.*

**RED BIRD CLING**—The earliest of the large clings. Color creamy-white, overspread with bright, glowing red.

**TRIUMPH**—Ripens in early July; color greenish yellow, flesh yellow with red stains.

**TUSCAN CLING**—Large; yellow, heavy bearer and one of our best Clings; fine shipper. In great demand by canneries on account of its early ripening, being one of the first Clings to ripen.

**PRUNES**

Plums will accommodate themselves to most situations not absolutely wet, but produces finest fruit and most certain crops on heavy, clayey soil.

<table>
<thead>
<tr>
<th>Grade</th>
<th>Caliper</th>
<th>Each</th>
<th>10</th>
<th>100</th>
</tr>
</thead>
<tbody>
<tr>
<td>Extra</td>
<td>5-7 ft. 11/16&quot;</td>
<td>$1.05</td>
<td>$8.70</td>
<td>$....</td>
</tr>
<tr>
<td>Standard</td>
<td>4-6 ft. 9/16&quot;</td>
<td>.78</td>
<td>5.50</td>
<td>45.00</td>
</tr>
<tr>
<td>Mall Size</td>
<td>3-4 ft. 7/16&quot;</td>
<td>.50</td>
<td>3.50</td>
<td>30.00</td>
</tr>
</tbody>
</table>

**BARLETT**—Fruit large, clear lemon yellow, highly flavored; very juicy. September.

**BEURRE D'ANJOU**—Large, of vinous flavor; one of the leading late autumn varieties.

**KEIFER'S HYBRID**—Rarely ever blights. Fruit of fine size, rich color and good quality. October and November.

**PARRISH FAVORITE**—Large, beautiful winter pear, ripening in November-December. Will keep until spring, retaining its captivating flavor. Never blights. Best winter pear.

**CLAPP'S FAVORITE**—Summer pear, resembling Barlett. Ripens in August.

**SIECKEL**—Small, yellowish-brown, tender, juicy, melting. Ripens in September.

**WINTER NELLI**—A good winter variety of medium size.

Transportation on all Trees marked "Mail" size will be prepaid at catalog prices. Larger sizes by Express or Freight at purchaser's expense.

**BING CHERRIES**

Cherries will accommodate themselves to most situations not absolutely wet, but produces finest fruit and most certain crops on heavy, clayey soil.

<table>
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</tbody>
</table>

**ITALIAN-FELLERINGBURG PRUNE**—Large oval, dark purple; flesh greenish-yellow; separates freely from stone; best for drying on the market. August-September. Best commercial sort.
ORNAMENTAL TREES

A city street is not attractive unless softened by the foliage and branches of trees. They shelter the home from excessive heat and dust, add charm to the finest buildings and hide the untidy and unsightly places. There is nothing that adorns a city desirably to fine shade trees. There is an unending loveliness as they continually change with the seasons. At the first breath of spring, the swelling buds open into dainty flowers, often inconspicuous, but none of the richness of mid-summer flowers greater. The full of autumn brings many beauty that come almost overnight.

Prices are for different sized trees, all f. o. b. our Nurseries or Salt Lake City, and in all cases good value will be given, according to price charged. Ten per cent discount on orders of 5 trees or more of one variety and size. Special prices made on lots of 100 up.

**Allanthus (Tree of Heaven)**

Glandulosa—A rapid growing, lofty tree, long, elegant foliage. Exempt from diseases. Useful for tropical effects, withstands dust and smoke better than most other trees. 6-8 ft., $2.00 each; 8-10 feet, $2.50 each.

**Ash**

American White (Fraxinus Americana)—A rapid growing native tree of fine symmetrical outline. A valuable street or park tree. Timber is largely used. Price, 6-8 ft., $1.00 each; 8-10 ft., $1.75 each; 10-12 ft., $18.00 per ten.

Blue Ash (Fraxinus Quadrangulata)—Very shapely symmetrical tree for parks. A smooth of deep blueish green, leaves larger than other varieties of Ash, deep green changing in autumn to reddish purple. 6-8 ft., $2.00; 8-10 ft., $2.50.

Green Ash (Fraxinus Laceolata)—Shapely round top with dark green foliage. Price, 6-8 ft., $1.50 each; 8-10 ft., $1.75 each; 10-12 ft., $18.00 each.

European Mountain Ash (Sorbus Aucuparia) (Rowan Tree)—Handsome small tree of erect growth. Leaves pinnate, leaves serrate. Flowers white, in flat clusters, four or five inches broad, followed by rather large, red berries. Very handsome at any season. 6-8 ft., $2.00 each; 8-10 ft., $3.00 each; 10-12 ft., $4.00 each.

**Box Elder**

Ash-Leaved Maple (Acer Negundo)—A fine, rapid-growing avenue tree; withstands both cold and drought, thrives where other trees fail. 6-8 ft., $1.00 each; 8-10 ft., $1.50 each; 10-12 ft., $2.00 each.

**Birch**

Cut-Leaved Weeping Birch (Betula pendula laciniata)—Very beautiful form of European White Birch. The main trunk, with snow-white bark, graceful. Branches spread but slightly, while the fine slender shoots hang vertically. The foliage is fine and deeply cut. Many consider this the most beautiful deciduous tree in cultivation. 6 to 7 ft., $3.50 each; 8-10 ft., $3.50 each.

European White Birch (Betula Alba)—Of which Coleridge says, "Most beautiful of forest trees, the lady of the woods." Tall and straight, distinctive white bark. 6-8 feet, $2.00 each; 8-10 ft., $2.50 each.

**Catalpa**

Bungel (Umbrella Tree)—These beautiful globe-shaped tops, being grafted high on clean straight stems form one of the most valuable trees for landscape designing especially for formal effects. One year head, $2.00; two year old heads, $3.50.

Spociosa (Western Catalpa)—Rapid growing producer of panicles of fragrant flowers, delicately marked with violet and yellow. 6-8 ft., $1.50 each; 8-10 ft., $2.00 each; 10-12 ft., $2.50 each.

**Crab**

Becteils Double Flowering—Most beautiful of all the flowering Crabs; Hardy, of medium size, covering the earth in early spring with large, beautiful double, fragrant flowers, ressembling Paul’s or a delicate pink. Ideal for a small yard. 3-4 ft., $1.50 each; 4-6 feet, $2.00 each.

**Flowering Cherries**

Double White Cherry (Prunus Avium Florepleno)—A charming small tree with branches completely covered with clusters of large double purple flowers. In May, 4 to 5 feet, $2.00 each.

Japanese Double Pink Flowering (Prunus Pseudo cerasifera florepleno)—Famous flowering cherries of Czar’s garden. Beautiful specimens, blooming from profuse panicles. 4 to 5 feet, $2.25 each.

**Cornus**

( Dogwood)

White Flowering Dogwood (Cornus Florida)—Flowers white, 3 to 3 1/2 inches in diameter, produced in spring before leaves appear; very abundant, showy and durable. Foliage grayish green, glossy and handsome. In the autumn turning to deep red. Spreading, irregular form, growing 20 to 25 feet high. 6-8 ft., $2.00 each.

**Elm**

( Ulmus)

American Elm (Ulma Americana)—Tall and stately with a graceful, wide-spreading form vase-like, densely covered with a rich, creamy green foliage. 6-8 ft., $2.00 each; 8-10 ft., $3.00.

English Elm (Ulma Campestria)—A native of Europe; a noble rapid-growing tree, forming a dense head; a desirable tree for streets, avenues, etc. 6-8 ft., $2.00 each; 8-10 ft., $3.00 each.

Moline Elm—This is a new attractive type which is propagated entirely by budding in order that the beauty of the original form may be retained. It was first discovered and propagated by Kiehn’s Nurseries, from a tree found growing near Moline, Ill. The young tree is very rapid and erect in growth, in shape somewhat like a Lombardy Poplar, with leaves 6-8 inches across. The older trees become more spreading with more nearhorizontal branches. 6-8 ft., $5.50 each; 8-10 ft., $3.50 each.

Camperdown Elm (U. scabra pendula)—Always top grafted. Limbs grow outward and downward, giving the tree a remarkably picturesque aspect. 2 yr. Heads, $3.75 each.

**Golden Chain**

(Laburnum Vulgare)

A rather small quick-growing tree with soft, deep green clover-shaped leaves retaining their color until late in fall. Flowers fragrant, bright yellow, in long, drooping racemes, suggestive of yellow Wisteria borne on a tree. 4 to 6 ft., $1.75.

**Linden**

American (Tilia Americana)—A stately tree, growing 60 to 80 feet tall, forming a fine, broad round head with large, shining coriace leaves. Valuable for its beautiful white wood. Its flowers appear in yellow drooping clusters intensely fragrant. 6-8 ft., $2.75 each; 8-10 ft., $3.75.
Peach (Double Flowering)
Amygdalus Persica—Of all the spring flowering trees the Double Flowered Peaches are the most brilliant and beautiful. The entire tree and every branch is simply a mass of blossoms, appearing before the leaves, making an immense bouquet of gorgeous color. Fast growing and very hard, they should be more planted, but placed in the background as the tree is not especially desirable when the flowers are gone. Trim back after the flowers fall, to make plenty of new growth for next season’s bloom. Double White, $2.50 each.

Hawthorn (Flowering Thorn)
Handsome dwarf trees with shiny leaves of attractive shape and color; blooming in profusion late in spring with compact clusters of small, rose-like flowers. These are followed by large red fruits and autumn colorings.

English Double Flowering White (Crataegus Oxycanthus) fl. pl.—The double white form of the fragrant English Hawthorne; flowers in May and June. Color changes to pink before blossoms fall. 4-6 ft., $2.50 each.

Paul’s Double Scarlet (Crataegus Monogyna Pauli)—Flowers deep crimson-scarlet; very showy, followed by large red berries borne freely. This is one of the most attractive small trees for the front yard or as small specimen or groupings as showy in fruit as when in bloom. 5-6 ft., $3.00 each; 6-8 ft., $3.50 each; 8-10 ft., $5.00 each.

Horse Chestnut
Aesculus hippocastanum—The handsome European Horse Chestnut has leafy branches of extremely rapid growth, valuable for timber as well as quite ornamental. This is well adapted for planting on slopes and borders. It is available in black, brown, and white varieties. 10-12 ft., $2.00 each;

Locust
Common or Black Locust (Robinia pseudoacacia) — Makes a fine distinctive hedge of extremely rapid growth, valuable for timber as well as quite ornamental. This is available in black, brown, and white varieties. 10-12 ft., $2.50 each;

Honey Locust (Gleditsia triacanthos) — A large spreading tree, with wide spreading branches, feathery, fern-like leaves, and a stout armament of thorns. Makes a fine screen and is well adapted for planting in a shady location. 5-6 ft., $3.50 each;

Maples (Acer)
Silver (Daisy-carpum)—A large tree with wide spreading branches and drooping branches. Very bright green leaves appearing in April, make dense shade and thrive in any soil. 5-6 ft., $1.50 each; 10-12 ft., $2.50 each.

Norway (A. Platanoides) — A large handsome tree, of spreading rounded form, with shiny, deep green foliage. Usually very symmetrical. One of the most desirable species for the street, park or lawn. 5-6 ft., $3.00 each; 8-10 ft., $3.50; 10-12 ft., $5.00 each.

Schwedleri—A red and purple, contrasted with the delicate green of other trees in mid-summer they are purplish green and in winter a deep yellow. 6-8 ft., $3.50; 8-10 ft., $5.00 each.

Sugar—Straight, spreading, symmetrical tree, with autumn tints of clear-yellow and scarlet. 6-8 ft., $3.00 each; 8-10 ft., $4.00 each.

Sycamore (A. Pseudo platanus) — Rapid, upright growth; smooth, ash-gray bark; leaves large, five-lobed, deep green above and glaucous beneath. 6-8 ft., $3.00 each; 8-10 ft., $3.50 each; 10-12 ft., $5.00 each.

Mulberry
Mulberry, Russian (Morus tatarica) — Red, purple, or white large trees, make excellent food for fruit forage; used to attract birds. 6-8 feet, $1.50 each; 8-10 ft., $2.50 each.

Mulberry Tea Weeping (Morus alicifolia) — The long, slender, drooping branches of this tree give it a very unusual and much admired appearance. Potted for lawn planting. 2 year heads $3.75.

Olive
Russian (Elaeagnus engelii) — Its foliage is of a remarkable silver hue, showing up in striking contrast to that of the green of other shrubs or trees. For the back grounds where unusual color tones are desired. It also is useful for hedges. 5-6 ft., $1.00 each; 6-8 ft., $1.50 each.

Plane Oriental European Sycamore; Oriental Plane (Pseudoplatanus) — This splendid tree is almost picturesque and avenue use. Without training it forms a fine, symmetrical, rounded head. Almost entirely free from thorns or thorns. Leaves are large, dark green and deeply lobed. Dark foliage from trunk and older limbs. Every considered, we believe this is one of the very best 8-10 ft., $4.50 each; 6-8 ft., $3.00 each.

Polestar (Populus) — A tall columnar growing, of graceful outline, the branches not regular, the borders serrate, glossy green above and silvery beneath. 4-6 ft., $3.00 each; 5-6 ft., $5.00 each; 6-8 ft., $10.00 each; 10-12 ft., $15.00 each.

Chesnut (P. nigra) — Widely known and esteemed for its decided individuality. Grows to a great height, narrow and columnar. Forms a strong contrast with most other trees, hence valuable for single specimen planting. The young trees have a very pretty tamarisk-like habit. 4-8 ft., $1.50 each; 8-10 ft., $7.50 each.

Flowering Plum
Purple-Leafed (Prunus pissardi) — Handsome form, with rich purple leaves. Gathered in beautiful clusters with wide red fruits. 3-4 ft., $1.00; 4-5 ft., $1.50 each.

Tribloa (Double Flowered Plum) — A charming shrub of vigorous growth. Very easy in winter, before its leaves appear, the whole tree is decked in a fleecy cloud of double light pink blossoms. Its effect on a still leafless tree is simply magnificent. 4-6 ft., $1.25 each; 4 to 5 ft., $1.75 each.

Redbud
American Jacob’s (Cercis Canadensis) — Striking ornamental trees loaded with a mass of pea-shaped pink blossoms in early spring, when the leaves are quite small. 4-6 ft., $1.75; 4-6 ft., $2.00 each.

Sycamore
See Plane Oriental—Do not stock American (Platanus).

Tulip Tree
Liriodendron tulipifera—Tall, pyramidal tree, extremely ornamental, middle-shaped leaves; flowers tulip-shaped, rich yellow. 3-4 ft., $1.50; 4-6 ft., $3.00.

Walnut
Black (Juglans nigra) —The trees become very large, and. Markt well than any other tree. 4-6 ft., $1.50; 6-8 ft., $2.00 each.

Willow
American Black (Salix nigra) — Hardy under most trying conditions, thrives best where soils are moist and water plentiful. 6-8 ft., 65c; 8-10 ft, 85c; 10-12 ft., $1.25 each.

Golden (Salix vitellina aurea) — Its brilliant colored twigs makes this variety especially attractive for use as a screening or windbreaks. 6-8 ft., 75c; 8-10 ft, $1.00; 10-12 ft., $1.50 each.

Pussy Willow (Salix discolor) — A large shrub or small tree, very popular for all ornamental purposes because of its spire-like flowers appearing on the branches in early Spring. 4-6 ft., $1.50; 6-8 ft., $2.00 each.

Babylonian Weeping Willow (Salix babylonica) — A tree of stately appearance with long, pendant branches swaying in the slightest breeze, and makes a good screen, and whether planted on moist or dry grounds, thrives with unusual vigor. 8 to 10 ft., $1.75 each; 6 to 8 ft., $1.25 each.
Evergreen Shrubs and Trees

Both Public and Home grounds should have some of these beautiful specimens to give that bit of color needed to set off the rest of the planting.

Planting season for spring from March 1 to May 15, for fall from about September 15 to November 15, depending on season and locality. We can secure selected specimens in many varieties on which we would be glad to quote prices on receipt of list, stating kinds, sizes and numbers wanted.

All Evergreen Trees will be carefully dug with ball of earth about the roots and tightly sewed in burlap and will stand transportation with little risk of loss. In planting it is not necessary to remove the burlap. Place tree in properly prepared hole, cut burlap in several places, firm earth tightly about ball of roots, water, and mulch.

**Pfitzer Juniper (J. Chinnensis Pfitzeriana)—One of the handsomest of the dwarf-shrubs. The young growth is a lovely form and elegant appearance.**

- 1½-2 ft. spread, $5.00; 2-3 ft. spread, $7.50.

**Waukegan—A highly developed selection from Sabina Prostrata; ground-covering, closely compact.** The beautiful silver blue color assumes a rich purple hue with the first autumn frosts.

- 1½-2 ft., $5.00; 2-3 ft. spread, $7.50.

**Contoneaster**

**Frenchetti—Spreading, mounding shrub, 2-3 ft. high, to large large, dark green, bronzy-silver reverse. Pinkish-white flowers followed by well-scattered, orange-red berries of good size.**

- 18-24 in., $2.00; 2-3 ft., $2.50.

**Horizontalis—Low, flat, spreading, bright glossy green, very attractive.** Covered in April with masses of tiny pink flowers in the minute, brilliant scarlet berries. The foliage also turns scarlet and it is particularly decorative in winter.

- 18-24 in., $2.00.

**Eucryphon**

No collection of plants for landscape effect is quite complete without beautiful plants. Adaptable useful and attractive when used in groups, edgings, hedges, corner plantings and in rockeries.

**Japanese (E. japonicus)—Fine, upright shrub of moderate size and rather compact growth. Foliage and bark are dark, green.**

- Ball, 1-2 ft., $1.75; 2-3 ft., $2.50; 3-4 ft., $4.50.

**Silver Variegated (E. japonicus albescens)**

- Ball of strong, erect growth. Branches very light green. Leaves almost white around edges, changing to dark green in the center.

- Ball, 2-3 ft., $3.00; 3-4 ft., $4.50 each.

**Golden Variegated Euonymus (E. japonicus aureus)**

- Foliage: branches green; leaves yellow in center, dark green around edges. Color about the same as the variegated, but either all yellow or green. Ball, 12 to 18 in., $1.75; 2 to 3 ft., $3.00; 3 to 4 ft., $4.50.

**Pine (Pinus)**

**Mugho (Dwarf Pine)**—Leaves short, stiff and formal, thickly distributed in tufts over the branches in a crowded way somewhat similar to Austrian, and remains so even with age. Very useful as a hedge or screen, and grows with either yellow or green. Ball, 12 to 18 in., $1.75; 2 to 3 ft., $3.00; 3 to 4 ft., $4.50.

**Pyracantha (Firethorn)**

**Burning Bush, P. coccinea (Lalandi)—Deservedly popular on account of its clean, upright growth, bearing a great profusion of small flowers in flat corymbs, followed by a mass of orange-red berries in early fall (which remain on the plant until spring) firm green foliage. It is closely related to the Cotoneasters, but is easily distinguished because of its cruciately veined and thorny branches. Attains a height of 10 feet, but can be trimmed to any lower height desired.**

- 1½-2 ft., $1.50 each; 2-3 ft., $2.00 each; 3-4 ft., $3.50 each.

**Mahonia**

**Aquifolia (Oregon Grape)**—Holly-leaved, beautiful evergreen shrub, with smooth shining holly leaves; bright yellow flower clusters in May, and blue berries. The leaf color varies considerably throughout the year, assuming all shades of green, with flecks of red and bronze. Associates well with dwarf and medium shrubbery, of special value in shady locations.

- 12-18 inches, $1.75 each; 18-24 inches, $2.50; 2-3 ft., $3.50 each.

**Mountain Laurel**

**Kalimia Latifolia—One of the most attractive broad-leaved evergreens because of its splendid glossy green foliage and its masses of showy pink or rose colored flowers, which appear in profusion early in the Spring. The plants prefer a light, loose soil, free from lime, and will grow in either shade or sun, but flower more freely in the sunlight. Mulch the soil well with oak leaves or peat moss in the Fall, and dig them under in the Spring.**

- 1 to 1½ ft., $2.75 each; 1½ to 2 ft., $3.75 each.

**Spruce**

**Colorado Blue Spruce (Picea Pungens Glanice)—A most beautiful variety discovered and disseminated from the Rocky Mountains; it is the rarest blue of any evergreen, very distinct in foliage and growth; fine, compact habit. The great demand as a lawn tree where fine specimens are established proving it the best of all evergreen trees for the lawn. 1½-2 ft., $5.00 each; 2-3 ft., $7.50; 3-4½ ft., $9.50 each.

**Engelmanni—Makes fine symmetrical specimens. Under size of leaves light blue. 2-3 ft., $5.00; 3-4 ft., $8.00.

**Norway Spruce (P. excelsa)—A compact symmetrical tree; makes excellent specimens assuming a graceful, drooping habit with age. Cones very large. Foliage light green. Grows northward and of rapid growth. The original Christmas tree of northern Europe.**

- 1½-2 ft., $3.00 each; 2-3 ft., $4.50; 3-4 ft., $6.00 each.

**Colorado Blue Spruce**

Silver Blue Cedar

**Arbor Vita (Thuja)**

**American (White Cedar)—Erect, pyramidal habit, with soft bright green foliage, dense from ground up; grows rapidly and soon forms a most beautiful tree.**

- Like other types of Arbor vitae, the American can be trimmed at will, or even closely sheared when sufficiently developed. 1½ to 2 ft., $2.00; 2 to 3 ft., $3.50; 3 to 4 ft., $5.75 each.

**Clubosa—Forms a dense deep green, handsome globe 12-18 in., $3.50; 18-24 in., $5.00 each.**

**Pyramidal—Most compact and erect of the entire species. In form almost a counterpart of the Irish Juniper. Foliage a deep green, retaining color.**

- 18-24 in., $3.75; 2-3 ft., $6.00; 3 to 4 ft., $8.00 each.

**Box (Buxus—Boxwood)**

**Ideal for use in tubs at entrances, balconies, terraces and elsewhere around the home. They are for summer decoration and must be moved inside, except in very mild climates.**

**Pyramidical—Very attractive, 1½ ft., $4.00; 2-3 ft., $5.00; 3-4 ft., $6.00 each.**

**Juniper (Juniperus)**

**Irish—Erect, slender and formal in habit; foliage sage green, very compact; making a splendid column, sometimes 15 to 20 feet high; much used in cemeteries.**

- 2-3 ft., $4.00; 3-4 ft., $5.00 each.

**Red Cedar (J. Virginica)—This is the well known native tree, so much appreciated where the softness in appearance is desired in the landscape effect.**

- 2 ft., $3.00; 3 ft., $4.50; 4 ft., $6.00; 6 ft., $7.50; 8 ft., $10.00 each.

**Silver Blue Cedar (J. Virginica Glauca)—The entire young growths of this beautiful variety, are silvery-white which changes as they develop to an attractive bluish green.**

- The tree
### Useful Information On Shrubs, Vines, and Trees

**Bloom Period and Common Name**

<table>
<thead>
<tr>
<th>Color</th>
<th>Character</th>
<th>Height</th>
<th>Habit</th>
</tr>
</thead>
<tbody>
<tr>
<td>White, Pink</td>
<td>Double</td>
<td>3 to 5 ft.</td>
<td>Spreading</td>
</tr>
<tr>
<td>Yellow</td>
<td>Single</td>
<td>5 to 8 ft.</td>
<td>Spreading</td>
</tr>
<tr>
<td>Red</td>
<td>Single</td>
<td>4 to 5 ft.</td>
<td>Dense</td>
</tr>
<tr>
<td>White, Purple</td>
<td>Double</td>
<td>2 to 3 ft.</td>
<td>Bushy</td>
</tr>
<tr>
<td>White</td>
<td>Racemes</td>
<td>6 to 8 ft.</td>
<td>Branching</td>
</tr>
<tr>
<td>White</td>
<td>Double</td>
<td>4 to 6 ft.</td>
<td>Bushy</td>
</tr>
<tr>
<td>Yellow</td>
<td>Single</td>
<td>5 to 10 ft.</td>
<td>Upright</td>
</tr>
<tr>
<td>Red or Yellow</td>
<td>Single</td>
<td>3 to 8 ft.</td>
<td>Upright</td>
</tr>
<tr>
<td>Yellow</td>
<td>Double</td>
<td>4 to 6 ft.</td>
<td>Bushy</td>
</tr>
<tr>
<td>Pink</td>
<td>Single</td>
<td>5 to 6 ft.</td>
<td>Branching</td>
</tr>
<tr>
<td>Reddish Brown</td>
<td>Clusters</td>
<td>5 to 8 ft.</td>
<td>Branching</td>
</tr>
<tr>
<td>Creamy White</td>
<td>Single</td>
<td>4 to 8 ft.</td>
<td>Branching</td>
</tr>
<tr>
<td>Yellow</td>
<td>Clusters</td>
<td>8 to 10 ft.</td>
<td>Spreading</td>
</tr>
</tbody>
</table>

*The bloom period is simply approximated for the Mountain States and the month named when flowers first appear. Many varieties continue in bloom for periods in the months following.*

### Shrub Species

#### Shrubs Having Attractive Berries

<table>
<thead>
<tr>
<th>Japanese Barberry</th>
<th>Pyracantha</th>
<th>Japanese Quince</th>
<th>Box Elder</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coral Berry</td>
<td></td>
<td>Snowberries</td>
<td></td>
</tr>
<tr>
<td>Elders</td>
<td></td>
<td>Cranberry</td>
<td></td>
</tr>
<tr>
<td>Bush Honeysuckles</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cotoneaster</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Shrubs for Shady Places

<table>
<thead>
<tr>
<th>Japanese Barberry</th>
<th>Hypericum</th>
<th>Privet</th>
</tr>
</thead>
<tbody>
<tr>
<td>Deutzia</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dogwoods</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Coral Berry</td>
<td></td>
<td></td>
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<tr>
<td>Snowberry</td>
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</tr>
</tbody>
</table>

### Classification of Ornamental Trees

#### Trees Suitable for Street and Avenue Planting

<table>
<thead>
<tr>
<th>Allanthus</th>
<th>Mountain Ash</th>
<th>Horse Chestnut</th>
<th>Flowering Crab</th>
<th>Locust</th>
<th>Flowering Peach</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ash—Green, Blue</td>
<td>Maple—Norway, Silver</td>
<td>Poplar—Carolina, Bolleiana</td>
<td>Sugar, Sycamore, Schwederlii</td>
<td>Sycamore—American</td>
<td>Flowering Cherries</td>
</tr>
</tbody>
</table>

#### Trees with Colored Foliage

| Maple Schwederlii—(Purplish foliage) | Prunus Pissard—(Leaves purple) | Poplar Bolleiana—Silvery underneath leaves |

### Shrub Species

#### Shrubs for Wet Places

<table>
<thead>
<tr>
<th>Dogwoods</th>
<th>Hex</th>
<th>Elders</th>
<th>Tamarts</th>
</tr>
</thead>
<tbody>
<tr>
<td>Altheas</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Buddleia</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bush Honeysuckle</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hydrangea</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Japan Barberry</td>
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<td></td>
</tr>
</tbody>
</table>

#### Shrub Species

#### Trees for Lawn or Yard

<table>
<thead>
<tr>
<th>Allanthus</th>
<th>Horse Chestnut</th>
<th>Catalpa Bungeii</th>
<th>Cut-Leaved Birch</th>
<th>Camperdown Weeping Elm</th>
<th>Evergreens (See list)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Crab Double Flowering</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Catalpa Bungeii</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Cut-Leaved Birch</td>
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<td></td>
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<tr>
<td>Camperdown Weeping Elm</td>
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</tbody>
</table>

#### Evergreen Trees

<table>
<thead>
<tr>
<th>Arbor Vitae</th>
<th>Pines</th>
<th>Boxwoods</th>
<th>Junipers</th>
<th>Euonymus</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cotoneaster</td>
<td></td>
<td>Mahonia</td>
<td></td>
<td>Pyracantha</td>
</tr>
</tbody>
</table>

### Hardy Climbers for Special Situations

#### Climbers for Shady Places

| Celastrus Bittersweet, Apiius Tuberosa, Honeysuckle, English Ivy, Euonymus, Japanese |

#### Climbers for Hot Sunny Situations and Southern Aspect—Bignonia Radiata, Clematis, Paniculata, Honeysuckles, Roses, Kudzu |

#### Climbers for North Aspects—Ampelopsis Veitchii (Boston Ivy), English Ivy, Euonymus |

#### Climbers for Eastern or Coastal Aspects—Ampelopsis Engelmannii, Climatis, Vine, Climbing Roses, Clematis, Wisteria |
Hardy Ornamental and Flowering Shrubs

There is nothing which so quickly, and for so little cost, add so much to the beauty, cheerfulness and home-like appearance of a place as an assortment of hardy shrubs. They are permanent improvements which increase in size, value and beauty, year after year. Our price is for strong, healthy, field grown shrubs, two to four feet high, depending on the variety, some making higher growth than others.

For your convenience we have indicated in each description the height, spread, and blooming period. For example, "H 3-4, S 3-4, June," may be interpreted "height 3 to 4 feet, spread 3 to 4 feet, flowers in June." It is understood that the sizes given are only approximate, and will vary considerably according to soil and climate.

Shrubs marked (*) can be grown in partial shade, but they will also thrive in full exposure to the sun.

**Flowering Almond**

Amygdalus—A most beautiful shrub, is one of the loveliest. The flowers are borne on its slender branches during the spring. There are extensively used for hedge plants, for which they are admirably adapted. We offer in four distinct colors, Red, Pink, White, and Purple. H 10-12, S 6-8.

**Berberis (Barberry)**

Japanese Barberry (B. Thunbergii)—Beautiful shrub for hedges, border, screens or general purposes. Very compact and needs no attention with the shears. Foliage a rich green, changing in the autumn to brilliant scarlet and gold. Following the white flowers are scarlet oval berries which are borne into the winter. Two-year, 18-inch shrubs. 50c each; ten for $5.00; $4.00 per 100. H 3-4, S 3-4.

Japanese Box Barberry (Thunbergii Minor)—A very dwarf form of the Japanese Barberry. An admirable plant for low hedges, hedges, edgings and foreground planting.

**Buddleia variabilis Veltchiana**

Butterfly Shrub, Summer Lilac—One of the most desirable summer flowering shrubs, beginning to bloom in July, it continues until cut by severe frost. The flowers are of a pleasant shade of violet mauve, and are borne in dense cylindrical spires from 12 to 15 inches in length by 3 inches in diameter; it succeeds everywhere and flowers freely the first season planted. H 5-6, S 4-5.

**Caragana**

Siberica (Siberian Pea Tree)—Compound leaves bright green; numerous small clusters of yellow flowers. H 8-10, S 5, May and June.

**Dogwood (Cornus)**

Red Siberian (C. Sibirica)—Produces cream colored flowers in June, with blue tinged red twigs and branches. H 5-6, S 6.

Golden Twig (C. Stolonifera, Lutescens)—Yellow stemmed. Clusters of white flowers, stems and branches are yellow.

**Calycanthus** (Sweet Shrub) (C. floridus)—An old-fashioned shrub known to everyone. Its flowers are deep reddish-brown, sweet-scented; deep green, glossy foliage, free from disease. H 5-6, S 4-5.

**Cotoneaster**

Simonsi—White. June. Semitievergreen, quite erect. Leaves are dark green and usually adhere late in the season. Showy bright red fruit borne on the slender, erect branches all along the stems. H 6-7, S 5-6.

**Cyonidina**

Japan Quince (Japonica)—A single shrub on the lawn is very attractive; brilliant crimson flowers, among the first in the spring. H 4-5, S. Each, $1.00; ten for $8.50.

**Curtain (Ribes)**

Aureum (Missouri Golden Currant)—Grows to a height of from 4 to 7 feet. Flowers fragrant and useful for cut-flowers. Cultivated for its many pretty, spiny, sweet-scented, bright yellow flowers in May, and its clean, attractive foliage and bright autumn tints. H 4-5, S 5.

**Deutzia**

Hardy, fine habit, luxuriant foliage and profusion of attractive flowers render this among the most beautiful and most popular of flowering shrubs. Flowers in June and September and August.

**Crenata (Rosa Plena)—Double light pink; very desirable tall shrub. H 6-8, S 6.

**Grapes (Cornus)**—A favorite dwarf bush, covered with spikes of pure white flowers. H 2-3, S 3.

**Forsde of Rochester**—Fine, tall growing double white flowering variety. H 6-8, S 5 June.

**Exochorda**

Pearl Bush—Vigorous grower; dazzling white flowers in numerous terminal racemes. A narrow, upright shrub which prefers a moist, fertile soil. H 6-8 S 4, May.

**Eucalyptus**

Americana (Strawberry Tree)—American Burning Bush. Very showy in autumn when loaded with scarlet seed pods, from which orange-colored berries hang on slender threads. H 6-10, S 6.

**Forsythia (Golden Bell)**

Fortunei—Strong, erect habit; bright golden-yellow flowers in early spring. H 6-8, S 6 April.

**Hibiscus Syriacus** (Althea)—Tall willowy growth, branches gracefully arching, covered with golden yellow bells. H 6 April.

The shrubs offered in this list are strong two and three-year old field grown, 2 to 4 feet, depending on variety. Unless otherwise specified, price 85c each; $7.50 per ten; $65.00 per 100.
Philadelphia (Mock Orange)
This old-fashioned sweet-scented shrub has long been a close rival of the lilac in popularity.

Coronarius (Garland Mock Orange)—This is a popular tall variety, refined and beautiful; large white flowers. H 6-8, S 4-6.

Grandiflorus (Large-flowered Syringa)—A very vigorous upright grower, attaining at times a height of 20 feet. Slender branches with an abundance of pure white, slightly fragrant flowers in June. H 8-10, S 8.

Rhus (Sumac)
Copalina (Black or Shining Sumac)—A shrub with large thorny branches growing to a height of 30 feet, with shiny dark green leaves which turn a rich crimson in the fall. H 4-6, S 5.

Typhina (Staghorn Sumac)—One of the most brilliant plants in Autumn, when the green foliage turns to red, and the showy red fruit is borne high above surrounding shrubs. H 10-12, S 6.

Kerria (Corchorus)
One of the most graceful and beautiful of the lower-growing shrubs for the front of a shrubbery border, or in a mixed planting of low shrubs around porches.

Japonica (Flore Plena)—Attractive golden yellow double flowers are borne continuously from June to October. H 4-5, S 3. Each, $1.00.

Sambucus
Canadensis Aurea (Golden Leaved Elder)—The best of all the colored leafed shrubs. A plant of this bush in a bed, or a border on the lawn is a conspicuous feature, the foliage being yellow to orange in June, July, and August. H 6-8, S 5.

Hedge Smilax—Leafy, bushy, spreading type, with large corymbes brilliantly colored rosy crimson. Very free flowering at its best in late summer. This is practically the best show red hedge shrub, being sufficiently dwarf to be used in foundation plantings or the front row of shrub groups. H 2-3, S 3.

Calixia alba (White Japanese Spiraea)—Similar to Anthony Waterer in habit and growth, but flowers are white.

Froebeli (Froebelii Spiraea)—The bluish green leaves are purple when young. Deep rosy blooms are borne in abundance in the middle of Summer, and over a long period. H 4-5.

Douglasii (Douglasii Spiraea)—Deep pink spikes of flowers in July and August, a delightful contrast against the white downy leaves. H 5-6, S 5.

Opulifolia Aurea (Virginia Goldenseal Rose)—Medium growth, golden-tinted foliage, large white flowers in June.

Prunifolia (Double Bridal Wreath)—One of the best; a beautiful shrub medium size, double white flowers in May. H 5-6, S 6.

Thunbergii—A graceful bush, beautiful at all seasons, with innumerable small white flowers. The tiny leaves turn to a brilliant orange-scarlet in the autumn.

Van Houtbertii (Bridal Wreath)—This is the most satisfactory shrub in cultivation. It is the best variety of Spiraeas. The bush is round and graceful, with long, thin, arching branches. The white flowers are in clusters, and are so numerous that when in full bloom the bush resembles a snowdrift. H 6-8, S 5. May and June.

Tamarix
Amurensis—Strong, slender, tall-growing shrub of medium height, with feathery foliage and small, delicate flowers, borne profusely on gracefully drooping branches. The pink flowers are very attractive during May, June, July, and August.

Sali—a (French Tamarix)—The flowers are pinkish; blooms from July to August. H 8-10, S 6.
WEIGELAS

Eva Rathke—Considered the finest Weigela in cultivation, blooming continuously throughout the summer and autumn. The flowers are a rich ruby-carmine. H 4-5; $5. Each $1.00.

Candidi—White flowering, flowering throughout the summer. H 6-8; $8.00

Roses—A beautiful shrub with rose colored flowers. H 5-6; S 5.

Viburnum

Plicatum (Japan Snowball)—One of the choice hardy shrubs, with healthy dark green foliage. The very opposite of pure white flowers are borne in a profusion in May. $1.00 each. H 6-8; S 8.

Opulus (High-Bush Cranberry)—The white flowers in June are followed by bright scarlet berries, which are very attractive until late in winter. H 10-12; S 10. Each, $1.00.

Opulus Sterilis (Common Snowball)—This bush, so widely known and loved, is one of the most popular of spring blooming shrubs. Its flower clusters are ball-like, pure white and produce no fruit or seeds. H 8-10; S 10. Each, $1.00.

Hedges, Screens and Windbreaks

For the border of the lawn, park or farm, there is dignity, privacy, seclusion and defense in well chosen, well maintained fence of shrubs. It is often desirable to screen objectionable views, outbuildings and neighboring properties. This can be done in a more effective manner and with greater improvement if there is by the use of ornamental plants of various kinds, than in any other manner. And for protecting the home or farm buildings from the sweep of bitter cold winds in winter, and from drifting snows, windbreaks and shelter belts of suitable plants furnish a protection which makes several degrees of difference in the temperature.

The deciduous shrubs most popular for hedges we list below:

Athea (Rose of Sharon) (A)—When planted more compactly and occasionally pruned make serviceable and showy hedges. Mixed Colors—Special size 18-24 in., $2.50 per ten; $20.00 per 100.

Berberis Thunbergii (Japanese Barberry)—Where a dwarf, deciduous hedge is wanted, nothing equals this beautiful Barberry. It requires but little pruning to keep it in shape. The leaves are small, light green, and towards fall assume rich, brilliant colors, the fruit or berries becoming scarlet. It is used extensively throughout the country and is perfectly hardy. Special size, 1 to 1½ ft., packed in bundles of 10 or 25 at $1.00 for 10; $7.50 for 25; $25.00 per 100.

Hardy Privet (Ligustrum)—This is, perhaps, the most popular of all the hedge plants. Being absolutely hardy, it increases in beauty with each successive year. To get best results, plants should be set 1 foot apart in double rows in zigzag fashion, so that the plants are diagonally opposite each other. If planted practically straight, they 6 inches apart, which is desirable to get quick, dense growth. May be planted from March to May, or from October to frost. 18-24 inch, 10 for $1.00; 50 for $5.15; $8.00 for 100; 2-3 feet for $1.25; 50 for $5.50; $10.00 per 100.

Rosa Rugosa, Rubra—Perfectly hardy, 4 to 5 feet high, foilage large, beautifully crinkled, color dark green. Flowers single, rose crimson, orange-scarlet fruits. Special 1-year size, $4.50 per 10; $40.00 per 100.

Rosa Rugosa, Alba—Foliage and habits, like "Rubra," flowers pure white, followed by orange-colored fruits. Special 1-year size, $4.50 per 10; $40.00 per 100.
Hardy Ornamental Vines and Creepers

Your home, outbuildings, fences and trunks of old trees can be made very attractive by the use of hardy vines. Such permanent improvements add greatly to the value of your property, and the value increases from year to year. We furnish strong two year old field plants at prices given below.

Ampelopsis

Engelmannii (New Virginia Creeper)—A new variety of American Ivy which has long been desired. It has shorter joints and very much smaller and thicker foliage. It also is better equipped with tendrils, by which it will climb walls of stone or brick as closely as the Boston Ivy. Will grow in almost any soil and withstand drought and heat well. Each 60c; ten for $6.50.

Quinquaria (American Creeper, American Ivy)—A strong, rapid grower; foliage large, dark green, in autumn, bronze and crimson. Valuable for covering back porches, barns, etc., perfectly hardy everywhere, and will grow in any soil and situation. Each, 60c; ten for $4.50.

Vitis (Boston or Japan Ivy)—One of the finest climbers for covering walls, as it clings firmly to the smoothest surface, covering it evenly with overlapping leaves, which form a perfect mass of foliage. The color is fresh deep green in summer, changing to bright shades of crimson and yellow in autumn. Each, 75c; ten for $5.50.

Aristolochia Siphonochilus

Dutchman's Pipe Vine—A vigorous and rapid-growing climber, bearing brownish-colored flowers which resemble a pipe in shape. This plant is, however, more admired for its light green leaves, which retain their color from early spring until the fall. Each, 75c; $2.50 per ten.

Bignonia Radicans

Scarlet Trumpet Vine—For covering unsightly places, stumps, rockwork or planting in crevices in ledges, the Bignonias will be found very useful. The flowers are large, attractive and showy, and borne profusely when the plant attains a fair size. Each, 75c; 65.50 per ten.

Celastrus scandens

Bittersweet, or Waxwork—One of our native climbing plants of rapid growth, succeeding in almost any situation, sun or shade, with attractive light green foliage and yellow flowers during June, followed in the autumn by bright orange fruit which usually remains on the plant throughout the winter. Each, 75c; $6.50 per ten.

Euonymus

Radicans—This trailing form of Euonymus is particularly desirable for its dense deep green evergreen foliage, it is extremely hardy and useful for covering low foundation walls or may be clipped as boxwood for an edging plant. Each, 75c; ten for $7.50.

Radicans villosus (Evergreen Bittersweet) —A strong-growing variety with larger leaves than the preceding, producing bright orange-red berries which remain on the plant the greater part of the winter. This hardy evergreen plant for wall covering, this variety is unequalled. Each, 75c; ten for $7.00.

Hedera (holly)

English Ivy—The well-known variety with small leaves which has proved perfectly hardy. Largely used covering walls, loose rocks, fences, or trellises. Each, 75c; $6.50 per ten.

Clematis

The Clematis are exceptionally fine, strong 2-year-old plants. We have reduced the number of varieties to such sorts as, from experience, we know to succeed best in our climate. Many failures are the result of too shallow planting. The crown of the roots should be set at least 3 inches below the surface of the soil.

Paniculata (Japanese Virgin's Bower)—This handsome hardy climber is one of the choicest and most satisfactory climbing flowering plants we know. The plant is of strong, rapid growth, with small, dense, cheerful green foliage, giving it a grace and elegance possessed by no other hardy climber. The flowers appear in the greatest profusion during August and continue until late in the fall, are white in color and most deliciously fragrant. Each, 75c; ten for $6.50.

Jackmanii—The best known and most valued variety of this popular family, a perfect mass of bloom when in full flower. Color, dark, rich, royal purple. Each $1; ten, $8.50.

Ville de Lyon—Bright red, well-formed flowers; a very fine variety. Each, $1.00; ten for $8.50.

Sinensis (Chinese Wistaria)—A most beautiful climber of rapid growth. When well established it makes a growth of 15 to 20 feet in a season. Flowers pale blue. Each, 75c; ten for $6.50.

Sinensis, White—A white-flowering form of the above. Each, 75c; ten for $6.50.

Wisteria

Boston Ivy

Honeysuckle

Haliacta (Hall's Japan Honeysuckle)—A strong, vigorous, almost evergreen sort; white flowers changing to yellow; very fragrant; flowering from July to December; holds its leaves nearly all winter. Extra-selected plants. Each, 75c; ten for $6.50.

Scarlet Trumpet Honeysuckle—This and its varieties are the handsomest in cultivation. It is a strong, rapid grower and produces scarlet, showy flowers. Each, 75c; ten for $6.50.

Henryi—A recent introduction from China, where it has been found at an altitude of 6,000 feet; with almost evergreen foliage and distinct flowers of a peculiar bronze-red color, produced in graceful panicles in early summer. Each, 75c; ten for $6.50.

Lycium (chinense)

Marmoset Vine—Excellent for trellises or banks. The small purple flowers in Summer are followed by scarlet berries which cling long through the winter. Makes a vigorous growth; if desired, it may be trained as a shrub 75c; ten for $6.50 per ten.

Polygonum Auberti (Silver Lace Vine)

One of the most desirable flowering climbers. The plant is of strong, vigorous growth, attaining the height of 25 feet or more, and producing through the summer and fall great foamy sprays of white flowers. Strong plants, $1.00 each; ten for $9.50 per ten.
P.-W.'s GLORIOUS ROSES

The Rose is the joy of the rich man's garden and the solace of the poor man's front yard—it gives forth its beauty and perfume to the woman of fashion as well as to the toilers in the factory and on the farm. Certainly there is no plant in Floral Faddom that will bring greater reward for cultivation than the Rose. Under the respective classes and types in the following collection, we have selected what we consider the cream of the many now in cultivation.

Proper Depth to Plant

November Protection

December Protection

SOME THINGS TO OBSERVE FOR SUCCESS WITH ROSES

Unpacking—Should plants, when received, have a withered appearance, caused by an unusual delay in transit (which seldom occurs), soak them in water for an hour or more so as to restore their vitality.

How to Plant—The rose delights in an open, airy situation; all types are partial to clay loam, but will succeed in any ordinary soil if enriched with well rotted barnyard manure. Dig up the soil thoroughly to a depth of twelve to fifteen inches. Dig a hole sufficiently large to accommodate the root, and pour a half pint of water into the hole; in filling, shake the plant lightly so that the soil may fall evenly all around the roots; this avoids cavities. Firm the soil well around the plant in order that it may be solid. Be sure that the buds or grafts, that is where the lower branches begin, are at least 2 inches below the surface of the soil. Bush Roses can be set 1½ feet apart, climbing varieties from 4 to 6 feet apart, and standard Roses 3 or more feet apart. Cultivate freely throughout the summer and apply a light top dressing of bone-meal or sheep-manure at least once a month throughout the growing season.

Pruning—This operation is best performed during the dormant season. Most roses do better if moderately pruned. We usually remove from one-third to one-fourths of the past year's growth, and all weak and decayed wood should be entirely cut out. As a rule the more vigorous the variety the more it should be pruned. Besides spring pruning, many of the Hybrid Perpetuals required to be pruned as soon as their first blossoming is over, in order to grow new wood for later blooming. It is always the new growth which gives flowers. Most people are apt to prune too sparingly, which retards rather than enhances the free-blooming of their plants.

Spraying in Roses—See pages 85-86 on Insecticides.

Time for Planting—In this intermountain region, the best time for planting is in the spring, immediately after the frost is out of the ground, and as soon as the ground can be worked nicely.

Winter Protection—We have found that the most satisfactory protection is to draw up a mound of soil from 8 to 10 inches high around the base of the plants, then covering the entire bed after the ground begins to freeze with any loose material, such as strawy manure, leaves, etc. (See above cut).

P.-W.'s Polyantha or Baby Roses

A class of dwarf habit all through summer and fall, for bedding or as edgings for borders they are very beautiful. They are useful, either for pot culture or bedding purposes or for hedge effects.

Baby Dorothy—A pure pink with all quality of the Crimson Baby Rambler

Erna Teschendorf—A deep crimson flushed with carmine.

Madame Cecil Brunner—Color salmon-rose, the most beautiful and lovely of the miniature roses; very fragrant.

Lafayette—Bright red; large, semi-double flowers; as large as "Paul's Scarlet," good keeper. Very free flowering.

Rosa Rugosa (Rugosa Roses)

The roses are very hardy and are chiefly valuable for their foliage and highly colored "hips" which follow the bloom. Show to good advantage in groups and hedges.

Rubra—4 to 5 feet high, foliage large, beautifully cracked, color dark green. Flowers single, rosy crimson, orange-scarlet fruits.

Alba—Foliage and habits, like "Rubra," flowers pure white, followed by orange-colored fruits.


Hybrid Perpetual Roses

The varieties we list in this class are all of vigorous growth and hardy in our climate. Many of them flower the entire summer. Others flower during the month of June and again in August and September.

P.-W.'s Red American Beauty—Same habits of growth and bloom as the popular forcing American Beauty.

American Beauty White (Frua Karl Druschi)—Best show-white rose. Immense in size and hardy everywhere.

George Ahrends—Clear brilliant pink, good bud and perfect form flower. Known as Pink Frau Karl Druschi.

Price on any of above—Each, 75c; dozen, $5.00. All charges prepaid.
**P.-W.’s NOVELTY ROSE COLLECTION**

Including Recent Introductions and Special Varieties

We recommend this collection for general planting to all who wish a limited number of the choicest varieties, and who are desirous of a supply of extra fine flowers. This extensive collection can select with perfect confidence any variety in our collection of Everblooming Roses listed on pages 18 and 19. There is not one individual sort having been critically selected.

**America**—The Big Pink Beauty. Produces long stems, topped by large shapely flowers of peach pink; opens freely, practically thornless and very fragrant. A wonderful keeper after cutting. Price, each, $1.00.

**Annie Laurie**—Sport of Ophella. Bud large, long pointed; flowers large, very double; flesh pink, edges sunflower yellow; foliage abundant, rich glossy green, disease resistant. Few thorn. Continuous bloomer. Price, each, $1.00.

**Columbia**—Peach-blow pink deepening as it opens to blooming pink; large, open flowers measuring six inches across. Long stiff stems, nearly thornless, free from mildew, vigorous. Price, each, $1.00.

**Golden Emblem**—A most beautiful clear yellow, occasionedally flaked with crimson on the outer petals, wonderfully well shaped; buds and flowers on long stems with rich, glossy green foliage. Eav. $1.25.

**Doris Traylor**—Buds of splendid form, long and pointed, opening to moderately full flowers, sweetly scented. Color imperial pink flushed crimson and orange, the coloring is intensified by the golden base of the petals which gives the flowers a golden suffusion which is difficult to convey. They later change to deep amber yellow which does not fade. Growth vigorous and very free flowering. Price, $1.50 each.

**Empire Queen**—This splendid rose of recent introduction should find a place in every garden. It is our thirity, sturdy growth producing in great profusion attractive long slender buds of a clear, rich cerise color, gradually expanding into well shaped flowers possessing at times an orange blush, delightfully fragrant. Price, each, $1.25 each.

**Los Angeles**—One of the best roses ever introduced; growth, more and larger flowers, in a brighter pink, suffused apricot and gold. Very fragrant and a fine keeper after cutting. Price, each, $1.00.

**Miss Lolta Armour**—Bud medium size, globular; flowers very large, cupped, golden, borne several together on long stems; very fragrant and good keeper after cutting. Color, yellow orange at base, shading to burnt orange at tip; copper, reverse of petals chrome-yellow at base, shading to bright salmon with copper suffusion; passes to shrimp pink; copper margin abundant, leathery, golden green. Growth vigorous, abundant bloomer. Eav. $1.

**Mrs. Calvin Coolidge**—Sport of Ophella. Bud medium size, long pointed, flower medium size, semi-double, very lasting; rich yellow, deepening as it opens; borne several together on long stem. Foliage abundant, leathery, glossy dark green. Few thorn. Vigorous; continuous bloomer. Price, each, $1.00.

**Padre**—One of the finest bedding roses of recent introduction. This is a brilliant coppery-red flushed with yellow at the base, a color combination that appeals to everyone. It is of vigorous habit of growth and will produce more flowers than any other variety of the Hybrid Tea class. The beautiful long buds are borne on long stiff stems. Splendid for cutting as well as for garden decoration. Each, $1.00.


**Souvenir de Georges Pernet**—Strong, vigorous grower; flowers of very deep red, shading to cochineal carmine at the margin of the petals. Price, each, $1.00.

**Souvenir de H. A. Verschuren**—This new variety grows in a strong vigorous growth. Buds are long, of ideal shape for cutting opening out into full double flowers of good form. Center is apricot-yellow which shades to saffron-yellow at edges, intensely sweet pea scent, not found in many other roses. Price, each, $1.00.

**P.-W.’s Novelty Rose Collection Offer**

Your selection of one each of any six of P.-W’s Novelty Rose collection for $5.50; and one each of any twelve for $10.00, postpaid.

**President Wilson**—A most delightful shade of shrimp pink shading to coral red at base of petals. Flowers are large and freely produced upon long erect stems. Each, $1.00.

**Queen of Fragrance**—Flowers large, double, of graceful shape and freely produced throughout the season. Color shell-pink, tipped with silver. Powerful and delicious fragrance. Each, $1.00.

**Sensation**—As large and more prolific than President. Well supplied with heavy, lustrous foliage. Bud is long pointed and the open flower of extreme size and good color to the last. Good keeper. Color magnificent shade of red. Price, each, $1.00.

**Sunstar**—Deep yellow edged, veined and splashed crimson and vermilion, all colors that attract and vary in tone and intensity as the blooms develop, of medium size, highly scented. Awarded a gold medal by the National Rose Society of England. Each, $1.00.

**Rosa Hugonis**—This species, recently introduced from China, is one of the most attractive roses known. It is of shrub-like habit of growth and naturally forms, symmetrical bushes about 6 feet high, and the same in diameter, and while not suited to plant in the Rose border, it is an invaluable subject when planted in connection with other shrubs or as single specimens in the garden. Its delicate yellow single flowers are produced on long arching sprays early in May; every branch of the previous season’s growth becomes lined on both sides to the very tips with these attractive flowers, and after it has finished flowering it remains an attractive decorative bush for the balance of the season; perfectly hardy. Strong two-year-old plants, each, $1.00.
P.-W.'s EVER BLOOMING ROSES

The varieties selected in this list bloom freely and without interruption from the first year; stand severe winters with only ordinary protection. We have taken exceptional pains in selecting out of the hundreds now in cultivation just those varieties which we judge to be truly worthwhile. Where old stand-bys or brand new novelties the same rule has been followed to choose only those that stand out as having exceptional merit.

This list is the pick of both old and new—The leading Everblooming Garden Roses to Date. Hybrid Tea are marked (H.T.) and Tea Roses (T.). Unless otherwise noted, price of any on this page: 75c each, $5.00 per dozen charges prepaid, strong, healthy 2-year-old dormant roots.

Betty (H.T.)—Color coppery-rose shaded golden-yellow; deliciously perfumed.

Crusader (H.T.)—Very free flowering, strong grower.

Duchess of Wellington (H.T.)—Intense saffron yellow stained with crimson, changing to deep coppery saffron yellow.

Edward Mawley (H.T.)—A beautiful rich crimson touched with maroon, with a delightful velvet gloss.

Etoile De France (H.T.)—Strong, upright, growth; beautiful bronze-green foliage. Blooms constantly, producing large, massive deep, cup-form flowers on long stems; clear red and velvety crimson color.

Gruss an Toplitz (Virginia R. Cox) (H.T.)—The best bedding and hedge rose for the Rocky Mountain states. In bloom continuously from early spring until snow. The color is fiery-crimson, shaded with a dark velvety sheen, a combination found in no other rose. Perfectly hardy in all sections. Large size, each, 75c; per dozen, $7.50; per 100, $50.00 Second size, each, 50c; per dozen, $5.50; per 100, $10.00.

Hadley (H.T.)—A splendid velvety crimson, with large well formed buds, most delicate fragrance.

Hoosier Beauty (H.T.)—Beautiful well-shaped long buds; color rich orange, dazzling crimson-scarlet; deliciously fragrant. Price, $1.00 each.

Irish Fire Flame (H.T.)—Closed bud fiery orange-red, shaded salmon at base, when fully open bright salmon; five-petaled and single; one of the daintiest and sweetest things imaginable. Each 1.00.

Kilarney (H.T.)—Brilliant sparkling pink with large pointed buds, broad, waxlike petals and enormous semi-full flowers of exceeding beauty. One of the very finest forcers.

Juline Augusta Victoria (H.T.)—In color it is a soft pearly-white, tinted with just enough lemon in the center to relieve the white; remarkably fragrant. $1.00 each.

La France (H.T.)—Beautiful silvery-pink; large, full and of form.

Lady Hillingdon (T.)—Apricot yellow shaded to orange on the outer edge of the petal, becoming deeper and more intense toward the center of the bloom. After the bloom is cut, the color invariably becomes darker. A strong hearty grower.

Mme. Edouard Herriot (H.T.)—The Daily Mail Rose. If color its buds are coral-red, shaped with yellow at the base; the open flowers of medium size, semi-double, are of a superb coral-red, shaded with yellow and bright rosy-scarlet passing to shrimp-pink.

1.00 each.

Mrs. Aaron Ward (H.T.)—Coppery-orange in the open bud but golden orange when partly developed, pinkish-fawn of lovely shade when fully open. Price $1.00 each.

Madame Caroline Testout (H.T.)—Grand bright pink, flowering freely all summer; known as the “Portland Rose.”

Mrs. Seg. Weber (H.T.)—Vigorous grower; free-flowering, large, perfectly formed, fragrant flowers of salmon-pink.

Mrs. Charles Russell (H.T.)—The bud is fully as large as American Beauty but longer and pointed; color bright rose pink, deeper towards the center.

Mrs. A. R. Waddell (H.T.)—A rosy-scarlet, opening rosy salmon, with reverse of petals rosy-scarlet. A sturdy, eye and vigorous grower.


Ophelia (H.T.)—Color salmon-flesh shaded with rose large and perfect shape.

Old Gold (H.T.)—Vivid reddish-orange, with coppery-red and apricot shadings; strong, midde-wood and free. Medium size, semi-double. Each $1.00.

Papa Gontier (T.)—Much sought after for cut flowers or account of its magnificent buds; color, rich cherry red; collection is complete without it.

Pink Maman Cochet* (T.)—The buds are large, full and firm, elegantly pointed, showing depth and richness as they expand; clear rich pink, changing to silvery-rose.

Radiance (H.T.)—In color a brilliant carmine-pink, with salmon-pink and yellow shadings at the base of the petals truly rose for every garden. Endures hot weather splendidly.

Red Radiance (H.T.)—An ideal bedding Rose that continues to produce its large flowers throughout the season, even during the most unfavorable hot summer weather, when many varieties fail; in color a bright, clear cerise-red.

Prices of above, except where otherwise noted, 75c each, $5.00 per dozen. All prices prepaid.

Wm. F. Dreer. (See page 19).

Typical Everblooming Rose
Rose Marie (H. T.)—One of the best bedding roses grown, remarkably free-flowering, producing large, long ideal buds, which develop into rose clusters of beautiful form of a most pleasing clear rose-pink.

Red Letter Day (H. T.)—An exceedingly beautiful rose of infinite grace and charm. Its velvety, brilliant, growing scarlet-crimson buds and fully openedactus-like flowers never fade, as the reflex of the petals is satiny crimson-scarlet. Awarded S. G. Medal. N. R. S.

Soleil d’Or—Changing from orange-yellow to reddish gold and nasturtium-red, strong upright growth. Price, $1.00 each.

Sunburst (H. T.)—Long, pointed buds; color, orange-copper or golden-orange and golden-yellow; edge of petals lighter. Price, $1.00 each.

White Maman Cochet (T.)—Free blower, bearing magnificent buds and flowers standing at the very head of roses as the best white for open ground culture.

William F. Dreer (H. T.)—The flowers are similar in shape to Los Angeles, and are at their best in the half-expanded flower. These, in expanding, are of a soft, silvery shell-pink, the base of the petals of a rich golden-yellow which, at certain stages of development gives a golden suffusion to the entire flower, being particularly brilliant early and late in the season. Each, $1.00.

White Kilarney, Double (H. T.)—A pure white sport of the famous and popular Kilarney Rose much more double than its parent.

Winnie Davis (H. T.)—Brilliant apricot-pink with reflex lighter tints, making very handsome semilouble, graceful Rose. Buds long, fine form.

Willowmere (H. T.)—This splendid rose is of a superb suffused with carmine in bud state, and opens to a large, full, handsome flower of a rich shrimp-pink shaded yellow in the center and flushed Carmine-like towards the edges of the petals. Each, $1.00.

P.-W.’s Hardy Climbing Roses

American Pillar—A single-flowering variety of great beauty, which appeals to everyone. Flowers are enormous in size, four to four inches across, of a lovely shade of pink, with a clear white eye and cluster of yellow stamens.

Climbing American Beauty—Same color, size and fragrance as American Beauty, with the addition of the climbing habit.

Climbing Cecil Brunner—Very robust and one of the strongest climbers in the rose family. Hardy and suitable for all sections.

Climbing Mme. Caroline Testout—A solid cerise-pink and does not fade. Highly fragrant.

Climbing Kaiserine Augusta Victoria—This is easily the grandest climbing white rose extant.

Climbing Baby Rambler, or Miss G. Meissman—This is the true ever-blooming Crimson Rambler; a climbing form of the Baby Rambler.

Dorothy Perkins—Old-fashioned cluster roses. We supply three colors, Pink, Red and White.

Ever Blooming Rambler, or Flower of Fairfield—This is a much-heralded ever-blooming Crimson Rambler; deep crimson in immense clusters.

Paul’s Scarlet Climber—No other Rose, in any class, can compare with this for brilliancy of color which is maintained until the petals fall. It is of strong climbing habit and perfectly hardy. This is one of the most popular red climbing Roses.

Silver Moon—Different from all other roses, with beautiful semi-double flowers four and a half inches and over in diameter; pure white in color, petals of great substance, beautifully cupped. The large bunch of yellow stamens in the center adds to its attractiveness.

Christine Wright—Strong climbing habit. The flowers double, from 3 1/2 to 4 inches in diameter, borne singly and in clusters, beautiful in the bud and in the fully expanded flower; color bright wild-rose pink.

Dr. W. Van Fleet—The long pointed buds are of a rich flesh-pink on stems 12 to 18 inches long; splendid for cutting. A strong, vigorous grower.

Emily Gray—In this we have a real yellow climbing Rose as hardy as Dr. Van Fleet. The buds are long and pointed, of splendid shape; in color, a beautiful light orange-yellow, changing to pale orange as they expand, they are borne of stiff stems of sufficient length for cutting. The dark green, glossy, holly-like foliage adds a charm to the flowers and makes the plant, even when out of bloom, a most ornamental subject. $1.00 each.

Mary Wallace—This is a pillar Rose, making a fine, strong, self-supporting plant 6 to 8 feet high, with large glossy foliage, blooming with great freedom in spring and bearing considerable number of fine buds in summer and fall. Flowers very large, generally exceeding 4 inches across; well-formed, semi-double, of a bright clear rose-pink with salmon base to the petals. $1.00 each.

Tausendschoen (Thousand Beauties)—A popular variety with large flowers, wavy azalea-like petals. In color it is a most delicate shade of soft pink when first opening, changing to a Carmine on the reverse of petals when fully expanded. Almost thornless.

Price on any on this page, except where noted, 75c each, 12 for $8.00; two-year-old field grown shrubs; all charges prepaid.

Gruss An Teplitz—Bloom from June to Snow

Climbing Kaiserine Augusta Victoria 2nd year from planting
FLOWERING PLANTS

FOR BEDDING (Seeding Plants—Flatt Grown)

The following plants are raised from the choicest grade of seeds sent us by the most particular. We will be able to supply them fresh from our greenhouse, from April 25 to June 15. They are extra strong, transplanted, flat rooted stock, and ordered by mail, add 10c per dozen for postage. Price: 75c per dozen; $1.00 per 100.


Double Daisy—Salvia—*Zinnias—Mixed.

LOBELIA—Blue. *Snapdragon

(*) Marked varieties can be furnished in separate colors at same price.

POT GROWN PLANTS (From Cuttings)

Ready from April 15 to June 15. We list below four of the best Cannas in cultivation.

**King Humbert** 4 feet. Scarlet flowers, bronze leaves; greatest favorite today. This remarkable "Gold Medal" Canna has been in cultivation for the past twelve years. It is a cross between the orphan-flowering and the French or Crozy type, combining the best features of both, the large flowers of one with the dwarf, blooming character of the other, and the handsome broad, tropical foliage.

**Yellow King Humbert** 4 feet. Foliage a very dark green, flowers a deep rich yellow, softly spotted and blotched with bright red; measuring 5 to 7 inches across, individual petals 3 to 3½ inches in diameter. An orchid flowering sort of the well-known variety King Humbert. Some plants will occasionally give a scarlet or scarlet-striped flower, which we consider an improvement rather than a defect.

**Caladium or Elephant Ear**

Plant in rich soil and give plenty of water. With sufficient treatment a selected size bulb will make a plant about four feet high, with leaves three feet long and 20 inches wide. First size large bulbs, each, 30c; dozen, $2.75, postpaid.

**Cinnamon Vine (Dioscorea Batatas)**

A shade or bordering plant, taking its name from the peculiar fragrance of the delicate white flowers. Leaves heart-shaped, bright glossy green, growth rapid. Each, 15c; dozen, $1.50, postpaid.

**Lily of the Valley (Convallaria Majalis)**

Fern-like leaves are as much appreciated. After once being planted in the garden, they will increase in number and provide their graceful and sweetly scented blooms every spring for an almost indefinite time. Price, per dozen, 85c; 2 dozen, $1.60; per half bushel, $8.60.

**Maderia Vine**

One of the most popular climbers, succeeds in any location, doing best, however, in a sunny, sheltered place; foliage very dense. Strong tubers. Each, 10c; dozen, $1.00, postpaid.

**Montbretia**

One of the brightest of our summer flowering bulbs and should be set out during April or May. They should be protected during the winter with a heavy covering of leaves or litter. We have colors as follows: Red, Pink, Yellow, Orange, Variegated Red and Yellow. Each 11c; dozen, $1.10; per 100, $8.00. All colors mixed, 3c each; dozen, 55c; per 100, $6.00.

**Hardy Lilies**

Plant very early in spring. Amaryllis (Gold Banded)—Flowers white, dotted crimson, with a clear golden band running through the center of each petal very fragrant. Each 35c; 5, 95c, postpaid.

Regale—A new hardy Lily with remarkably beautiful blooms. Color, white, shaded pink; eanthy-yellow center. May be used for forcing. Each, 60c; dozen, $6.00.

Superbum—one of the most satisfactory Lilies that can be planted either in the garden or in inclosed beds. Often grows over eight feet high and produces twenty to thirty orange-red flowers in July when flowers are appropriated to the rather scarce. Each, 25c; dozen, $2.50.

**Speciosum Rubrum (Crimson Banded)**—White, with a deep rosy crimson band on each petal, with deeper colored spots between. Each, 25c; 2 for 50c, postpaid.

**Tigrinium (Single Tiger Lily)**—Very pretty. Extra large bulbs, each, 30c; dozen, $3.00, postpaid.

**Tigrinium (Double Tiger Lily)**—Very popular. Extra large bulbs, each, 30c; dozen, $3.00, postpaid.

**Tuberose**

The lovely waxy flowers are so fragrant that a few tips will perfume a room. The tips may be taken off as they expand, and if you do this gradually a few plants will provide for a long period. For open ground culture, plant in May or June in a warm location.

**Double Dwarf Pearl**—This is an improved strain of the Dwarf Pearl, bearing very heavy spikes of double flowers. Each, 10c; dozen, 75c; postpaid.

P. W. S P A N S Y P L A N T S

Without qualification these plants are excelled by none for beauty, variety of color and markings. Grown with utmost care from the world’s best mixture of Pansy seed, it is not putting it too strong when we say, “Positively there are none better.” First bloom about April 1. Prices: Large plants in bloom, per dozen, 60c; 100 plants, $3.75—add 10c per dozen postage.

Important—Plants sent by mail have but little soil left on roots, and should receive careful attention upon arrival if they appear withered, place in lukewarm water for an interval of ten to fifteen minutes. This will revive them.

CANNAS

The Canna is one of the most beautiful of all bulbous plants. Plant out-of-doors in the middle of May when weather is warm and settled. Do not water too freely until well started, then they should have an abundance. Plant 18 in. apart for best Cannas in cultivation.

**Hungaria** 3½ feet. The best pink Canna. Leaves bluish green, never burn. Flowers very large, with immense petals. Trusses of enormous size borne well above the foliage. Very compact, almost dwarf and of a very luxuriant growth.

**The President** 4 feet. In color a rich flowing scarlet with immense rounded flowers, seven inches across when fully open, are produced on strong erect stalks well above the heavy foliage. Free-blooming and strong grower.

Price: Dormant Roots—Extra large size any of above, one dozen, $2.50; two dozen, $4.50, postpaid.

Canna Plants—Strong, well established pot grown plants, ready in May. All of the above named varieties, each, 45c; dozen, 95c, 100, $92.50. Shipped by express only.

MISCELLANEOUS SPRING BULBS

Caladium or Elephant Ear

Plant in rich soil and give plenty of water. With sufficient treatment a selected size bulb will make a plant about four feet high, with leaves three feet long and 20 inches wide. First size large bulbs, each, 30c; dozen, $2.75, postpaid.

Cinnamon Vine (Dioscorea Batatas)

A shade or bordering plant, taking its name from the peculiar fragrance of the delicate white flowers. Leaves heart-shaped, bright glossy green, growth rapid. Each, 15c; dozen, $1.50, postpaid.

Lily of the Valley (Convallaria Majalis)

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Double Dwarf Pearl—This is an improved strain of the Dwarf Pearl, bearing very heavy spikes of double flowers. Each, 10c; dozen, 75c; postpaid.
GLADIOLUS (Sword Lily)

A succession of bloom may be had from July to October by making plantings two weeks apart to the end of June. To make a good show they should be planted from three to four inches apart each way, the large bulbs being covered about six inches deep, small ones from three to four inches, six and over furnished at dozen rates; 25 and over 100 rates. Delivery Charges on all Gladiolus Are Prepaid at Catalogue Prices.

Red Emperor—One of the best scarlet-reds. Each, 1c; dozen, $1.35; 100, $9.50.

Schwaben—A clear canary-yellow with a small blotch of deep carmine in the throat. Each, 7c; dozen, 70c, $5.00.

War—a magnificent rich blood-red shaded crimson-black. Each, 11c; dozen, $1.10; 100, $7.50.

Willy Wigman—Creamy white, scarlet blotch. Each, 1c; dozen, $1.00; 100, $6.00.

Rose Ash—Peculiar soft, old-rose tones, fading to ashes of roses on the outer edges of petals. Very unique in coloring and greatly admired. Each, 13c; dozen, $1.30; 100, $9.50.

Wilbrink—Pale livid pink, upper petals tinted slightly darker. Each, 7c; dozen, 70c, $4.50.

Yellow Hammer—Pure yellow, lightly marked with red in the throat. Each, 7c; dozen, 80c; 100, $5.75.

Marshall Foch—Finest warm salmon pink with small red blotch in throat; giant flowers and stem, slightly ruffled. Each, 17c; dozen, $1.70; 100, $12.00.

Golden Measure—A deeper shade of yellow, herefore unknown in the large-flowering Gladiolus. This is a real gem. Several of these gorgeous flowers in Bloom at once on a tall stem give an most magnificent effect. Each, 17c; dozen, $1.70; 100, $12.00.

Mr. Dr. Norton—Delicate cream and pink, deepening toward the edge; sulfur-yellow center. Flowers widely expanded. A very beautiful variety and much admired at Gladiolus exhibits. Each, 13c; dozen, $1.09; 100, $7.00.

Niagara—Beautiful cream, blending to yellow, herefore splashed with carmine. Each, 1c; dozen, 75c; 100, $5.00.

W. H. Phipps La France-pink overlaid with light rose-salmon, lighter toward the center. Lower petals yellow; very richly striped and more speckled with ruby. Flowers enormous. A masterpiece in Gladiolii, Each, 75c; dozen, $3.50.

Mixed Gladiolus

Primulinus Hybrids—Orchid-like flowers, slender, strong spikes. Colors brilliant and beautiful. Mixed colors. Each, 6c; dozen, 60c; 100, $3.50.

P. W.'s Superb Mixed—Our special mixture from the world's best Grandvagens, Childsi and European types. A well blended combination of small, large, shades and combinations. Doven, 50c; 100, $3.50.

Ruffled Varieties

A. B. Kunderd—Tall, large, deeply ruffled flower of delicate cream color. Plushed with finest blush pink. Lower petals primrose cream with pink edges. Grand, Each, 17c; dozen, $1.70; 100, $12.50.

Fern Kyle—A large ruffled flower of creamy white color. Vigorous grower. Creates a sensation wherever introduced. Shown at $25.00 per bulb. Each, $1.00; per dozen, $9.00.

E. J. Shaylor—Splendid pure deep pink, ruffled. Each, 9c; dozen, 80c; 100, $5.50.

Kunderd's Glory—Large, ruffled, beautiful creamy apricot with light tint of pink and fine markings of red on lower petals. Each, 11c; dozen, $1.10; 100, $8.00.

Purple Glory—A giant gladiolus of remarkable color, deepest velvety maroon red, faint shading of purple with almost black throat. Beautifully ruffled, with many open at a time. A giant in size. Truly wonderful. Each, 50c; dozen, $2.10; 100, $15.00.

Rose Glory—A very large and beautiful ruffled variety. Purest rose-pink color, deeper throat, extra fine. Each, 1c; dozen, $1.10; 100, $8.00.

A COLORFUL GARDEN OF GLADIOLI FOR $1.00

A dollar never bought more of beauty than our Special Offer of 30 Flowering Size Bulbs of P. W.'s Gladiolus Gladiolus, including not less than Five Varieties for $1.00. Rarely are flowers of the highest merit the most easily grown and subject of success. But such is the case with Gladiolus. If there is room for a single flower in the garden it should be this. 30 BULBS, Flowering Size, not less than 5 Varieties, postpaid, for $1.00.
DAHLIAS

Plant when danger of frost is over. If possible plant in an open, sunny situation. Prepare the soil thoroughly by deep digging. Be moderate in the use of both manure and water. Never plant when soil is wet. Lay the tuber flat on its side and cover it four inches deep during the soil firmly on the tuber. Keep the soil loose and mellow by frequent hoeing, drawing the soil to a slight hill around the plant.

P.-W.'s Special Merit Dahlias

Amun Ra or The Sun God—Wonderfully distinct in color and form, and exceedingly beautiful. The leaves are of a rich purple color, the petals are long and wide shaped, and the flowers are very large, each, $1.00.

Islam Patrol (Hybrid Cactus)—A brand new Cactus Dahlia with petals of a gold color with a deep purple shading. The flowers are very large and are held high on strong stems. Each, $1.00.

Jersey's Beauty (Decorative)—The most distinct and best Dahlia shown in the East. Each, $1.00.

Kittie Dunlap (Decorative)—Color is that of the American Beauty rose. Each, $1.00.

Lewis, Jr. (Cactus Hybrid)—A new Cactus Dahlia with petals of a rich purple color. Each, $1.00.

Lucy Davis (Decorative)—The petals are a rich purple color, the leaves are long and narrow, the stems are strong and sturdy, each, $1.00.

Discount Offer on P.-W.'s Special Merit Dahlias—10% Discount from above prices on your selection of any six or more, and 15% Discount on any twelve or more.

All Dahlias are Prepaid at Above Prices.

Amun-Ra Dahlia

Radio (Decorative)—Without a doubt one of the greatest dahlias ever originated. Can be grown 110 inches in diameter. Color, blood red, edged and tipped with yellow. Must be seen to appreciate its beauty. Each, $2.25.

Pride of California (Decorative)—Called the “American Beauty” Dahlia. Winner of Gold and Silver Medals. A huge crimson red flowers produced on long straight stems. Each, $50c.

Sweetheart's Bouquet (Peony Flowered)—In color an unique shade of salmon rose, shaded with fawn; pleasing alike in both day and artificial light. Each, $1.00.

The Grizzly (Hybrid Cactus)—One of the very best novelties. A great dark velvety maroon beauty. Flowers of immense size are held high above the fine foliage on extra strong stems. Each, $1.00.

Tommy Atkins (Decorative)—Well, here we have the richest gold scarlet, a color that glitters in the sunshine, an exhibition flower that always attracts attention, a giant in size. Each, $1.00.

POMPON DAHLIAS

These miniatures are very attractive for cut flowers. The plants produce a wealth of bloom during the entire season. The flowers are carried on very long stems. Each, $50c.

Achilles—Beautiful lavender.
Amber Queen—Amber, shaded apricot.
Catherine—Bright yellow.
Little Beauty—Pink.
Prince Charming—Cream tipped purple.
Snowclad—Fine white.
Sunbeam—A fine crimson.
All of above, each 25c; doz., $2.50.
Cactus Dahlias

Following is our selection of the leading ten standard varieties. All prices postpaid. See cut for idea of form and style of flowers in this class.

**Countess of Lonsdale**—The finest-flowering cactus dahlia. Color, an exquisite shade of rich salmon. Each, 25c; dozen, $2.50.

**Family Flower**—Flowers freely on excellent stems. Color, American Beauty red. Each 25c; dozen, $2.50. Exellent for mourners' and funeral arrangements. "Dense" flowers with curled wavy petals. Color, rich carmine rose. Ea. 25c; dz. $5.00.

**Gold West**—Often 7 inches across. Stems long and rigid. Color, golden yellow, shaded to pure yellow in center. No superior. Each, 50c; dozen, $5.00.

**John Riding**—Perfect form, great depth. An excellent for show. Each, 50c; dozen, $5.00.

**Mrs. H. J. Jones**—Large, with long, claw-like petals, curving forward. Color, bright, vivid red, tipped and edged with pure white. Sometimes solid red, at others, blush white. Each, 25c; dozen, $2.50.

**Betty Austin**—Yellow at base of petal, blending to rosy carmine and rose yellow at tips. Each, 50c; dozen, $5.00.

**Nebelungshorter**—Gigantic flower, a very beautiful shade of old rose, with a blending of salmon pink and golden apricot. Each, 50c; dozen, $5.00.

**Rheincong**—Immensely pure snowy white, on long stiff stems. Each, 25c; dozen, $2.50.

P.-W.'s Dahlia Collection Offer No. 2—Your selection of one each of any six of above named Cactus Dahlias for $2.00, postpaid.

Decorative Dahlias

The cut accompanying will give an idea of the form and style of flowers in this class. The following varieties are but a sample. All prices prepaid.

**Copper**—One of the largest; broad, dusty, twisted petals, of a beautiful copper shade, tinted with bronze and tipped. Each 50c; dozen, $5.00.

**Delice**—Its beautiful soft, yet lively color, a glowing rose pink. Each, 25c; $2.50.

**Giants Ruby**—Deep scarlet; an enormous flower with great depth. Extra good for exhibition. Each, 50c; dozen, $3.00.

**Jane Selby**—Immensely; delicate mauve pink; perfect formation. Each, 50c; dozen, $3.00.

**Paul Bonyon**—Beautiful, large, salmon pink with luminous golden sheen. Each, 50c; dozen, $3.00.

P.-W.'s Dahlia Collection No. 3—Your selection of one each of any six of the above named Decorative Dahlias, $2.00, postpaid.

Paeony Flowered Dahlias

This wonderful new type is now very popular. It could well be described as semi-double of the decorative form and resembles very much a large semi-double paeony. We have selected what we consider ten of the choicest varieties of this class. (See cut for style and form of flowers.) Prices prepaid.

**Naiad**—Cream pink. Beautiful by day, and simply grand under artificial light. Each, 25c; dozen, $2.50.

**Queen Esther**—Beautiful deep red of enormous size. Long, strong stems. Each, 50c.

**Nomola Rizzani**—Yellowish salmon, very large and free blooming. Each, 25c; dozen, $2.50.

**Sherlock Holmes**—Lovely lilac or mauve pink. Stems long and erect. Each, 25c; dozen, $2.50.

**South Pole**—A large, pure white. Each, 50c; dozen, $5.00.

**Van Dyke**—Mammouth flower, salmon rose, tinted hellebore; petals twisted. Each, 25c; dozen, $2.50.

P.-W.'s Dahlia Collection Offer No. 4—Your selection of one each of any six of the above named Paeony Flowered Dahlias for $2.00, postpaid.

Show and Fancy Dahlias

Our selection of the leading standard varieties. See cut for idea of style and form of flowers in this class. All prices postpaid.

**Bertha Bernstein**—Petals beautifully quilled. Color, dark lavender, in the twilight hours giving a decided blue shading. Each, 25c.

**Dr. I. B. Perkins**—Large pure white, long, strong, excellent. Each, 25c.


Miss Helen Holli—Undoubtedly the largest deep scarlet show Dahlia in existence. Each, 30c; dozen, $3.00.

**Manzanita**—Rich, clear, rich, the purest of its color yet introduced. Each, 25c; dozen, $3.00.

**Purple Gem**—Rich royal purple, clear and constant. This variety is a marked improvement over the old varieties. Each, 25c; dozen, $2.50.

**The Rose**—Very large; color similar to the American Beauty rose. Each, 25c; dozen, $2.50.

P.-W.'s Dahlia Offer No. 6—Your selection of one each of any six of the above named Show and Fancy Dahlias for $1.50, postpaid.
DOUBLE PEONIES

Peonies will do well in almost any garden soil, but the better enriched the more vigorous the growth. The plant is extremely hardy and will survive the coldest winters with little or no protection.

An important point to observe in the planting of Peonies is not to plant too deep. The roots should be placed so that the crowns are covered with two or three inches of soil. Too deep planting is a frequent cause of shy flowering.

Prices Include Postage.

Standard Varieties Peonies

Delachie—Medium, compact, rose type. Violet-crimson, slightly silver tipped. Late mid-season. Each, 75c; dozen, $9.00.

Edulis Superba—This is the famous Decoration Day Peony. Color a beautiful bright clear pink, with silvery reflex. Each, 50c; dozen, $5.50.

Felix Crousse—Large, ball-shaped bloom; very brilliant red. One of the finest self-colored varieties. Each, 90c; dozen, $9.00.

Festiva Maxima—The finest white in cultivation. Each 55c; dozen, $5.50.


L'Eclatante—Bomb type; midseason. Flowers very double and full; color deep, brilliant velvety-crimson. Each, 75c; dozen, $7.50.

Madam Leoline Calot—Milky-white, flesh tinted, beaked with crimson. Late mid-season. Each 75c; dozen, $7.00.

Mons. Jules Elie—Immense, globular, very full flowerers. Color glossy lilac-pink, shading to deeper rose at base, the entire flower overlaid with a sheen of silvery hue. Early mid-season. Each, $1.00; dozen, $10.00.

Meissonier—(Syn. American Beauty) Bomb type; midseason. Very brilliant crimson; full double flowers on stiff, wiry stems. Each, 75c; dozen, $7.00.

Princess Matilda—Very large. Light rich pink. Each, 55c; dozen, $5.50.

Officinalis Rubra (Red)—Extra early red old fashioned type. Each, 55c; dozen, $5.00.

Queen Victoria—Bomb type; early mid-season. One of the best every day white. Very pretty in the bud state, when it has a faint blush tint. Each 55c; dozen, $5.50.

Rubra Superba—Magnificent rich brilliant crimson, very large, full, and double. Highly fragrant. Decidedly the best late red Peony. Each, 75c; dozen, $7.50.

Mixed Peonies

Double Red—Each, 50c; dozen, $5.50.

Double White and Double Rose-Pink. Each, 45c; dozen, $4.50.

Florentina Iris, in Attractive Back Yard of I. A. Jackson.

Flag Iris (Germanica)

Avoid planting too deep, barely covering the rhizomes (creeping root stems) being sufficient. In the arid sections of the west where water is not obtainable the Fl. Iris varieties are most suitable as they are great drought resisters. We offer the following choice named varieties. “F” refers to the three standards, or upright curling petals. “S” to falls or drooping petals.

Eiderade—“S” very opalescent. “F” purplish gold. Each, 30c; dozen, $3.00.

Fairy—“S” white, “F” fringed blue. Each, 25c; dozen, $2.50.

Florentina—“S” white, “F” veined violet. Each, 25c; dozen, $2.25.

Idion—“S” golden yellow, “F” brown. Each, 30c; dozen, $3.00.

Kharput—Both “S” and “F” violet purple. Each, 25c; dozen, $2.50.

Lohengrin—Large, handsome, silvery mauve, both “S” and “F.” Each, 30c; dozen, $3.00.


Pallida Dalmatica—Both “S” and “F” clear lavender blue. Each, 35c; dozen, $3.50.

Mixed Named Iris (Separate to Color)—White shades, Yellow and Orange shades, Lavender shades, Blue shades, Purplio shades, Variegated shades, All shades and colors mixed, any of above each, 15c; dozen, $1.25; 100, $8.50.

Hardy Phlox

Phlox are a garden in themselves, succeed in almost any soil and position, and flower freely for many years without attention, yet they respond quickly to and are improved by liberal cultivation. They should be planted in October or November or in the very early spring.

Beacon—A magnificent immense bright cherry red.

B. Compte—A glowing French purple.

Henry Marcel—Red, shading bright salmon.

Mrs. Jenkins—The best white variety.

Thor—Rich salmon pink, deep crimson eye.

Rynstrom—Bright rose pink, large trusses.

R. P. Struthers—Rose Carmine, with scarlet red eye, very bright.

Price any of above 25c each; $2.50 dozen.
P.-W.’s PERENNIAL FLOWERS

Perennials have never been so popular as they are at the present time. Their permanency appeals to all. They are planted once and are always there; living through the winter with little or no protection, the flowers become better as the plants grow older. Will grow well in any soil, which may be enriched with decomposed manure or bone meal. The varieties we list are all perfectly hardy, the tops dying down in winter, but coming up early in the spring. A hardy border, properly planned and planted, is a continual source of joy throughout the season; from earliest spring to late autumn days it will be resplendent with color and will yield an abundance of flowers for indoor decoration. Once established, such borders need no other attention than to be kept free from weeds and to be given an occasional top-dressing with fertilizer for nourishment.

HOW TO GROW FROM SEED

Many of the hardy flowers will bloom the first year from seed if sown in the botched in February or March. Outdoors they may be sown any time from May 1 to August—the earlier the better, for the plants will then become stronger and better established before winter. A coldframe is an ideal place in which to sow Perennials, but, if you have none, prepare a seed-bed of finely sifted light soil made rich by adding and mixing with it thoroughly well-rotted barnyard manure, sheep manure, or humus. Sow the seed in shallow drills or squares of suitable size, partitioned off with laths; cover 1/4 inch or more, according to the size of the seed—the very fine ones should only be pressed into the soil; press down with a flat board; water gently but thoroughly from a fine hose and do not allow the soil to become dry while the seed is in the process of germination, for as soon as the seed has sprouted and until it becomes a plant with roots, its life depends entirely on soil-moisture. It is fatal to allow the soil to become dry for even five minutes during this period; and nearly all failures in growing perennials are attributable to this neglect. Seed-beds must, therefore, be shaded from the sun in summer and carefully watched and watered until the plants have made four to five leaves. While most of the hardy flowers germinate in from eight to fourteen days, there are some which take a month or more before they come up, so do not become impatient. If seedlings come up too thick, pull out some and transplant elsewhere in boxes or other seed-beds, and when plants are fully large enough they will be ready for setting out in their permanent places. This, however, should not be done later than October 1, in order to allow sufficient time for them to take a firm hold in the soil before frost.

Perennial Collection A—Suggestive Arrangement of a Hardy Border

This sketch of a Hardy Border (A) 50 x 5 feet, consisting of 30 choicest Perennials for continual bloom throughout the season, shows how to proceed with the laying out and placement of the plants.


Our SPECIAL OFFER(A) of 1 pkt. each of the above 30 varieties (regular price $4.20), for $3.50

To those desiring quicker results than can be had from seed we supply the field grown plants which will give a world of bloom the first season. Whether plants or seeds we can give you service. See page 26-29 inclusive. For seed of Annual Flowers, see pages 30-50.
P.-W.'s Perennial Flower Plants and Seeds

We furnish field grown plants of the varieties listed below. 25c each. $2.50 per dozen; $15.00 per 100. If by mail add 5c each; 30c per dozen, for postage and packing.

Alyssum (Madwort)
*Saxatile Compactum (Basket of Gold)—1 ft. May-June. Producing masses of golden flowers very early. May be planted effectively with Arabis. Seeds, ptk., 10c.

Anchusa

Anemone (Wind Flower)

Aquilegia (Columbine)
Canadensis (Turk's Cap) — Handsome scarlet and orange flowers. Pkt., 10c.

Coeurul (Rocky Mountain Columbine)—3 feet. One of the most beautiful of our native American flowers. Sepals, deep blue; petals, white. Pkt. 10c.

Long Spurred Columbines—Mixed. Pkt., 15c.

Single Mixed—Pkt., 10c.

Double Mixed—Pkt., 10c.

Agrostemma
Coronaria Varieties—Mixed—Attractive free-flowering, producing bright colored flowers on long slender stems like a single pink; blooms the first season; fine for cutting; 1 to 2 ft. June-September. Seeds, ptk., 10c.

Anthemis (Marguerite)
*Kelwayi (Hardy Marguerite)—2 ft. Daisy-like yellow blossoms, produced all summer. Excellent for cutting. Seeds, ptk. 10c.

Arabis (Rock Cress)
*Alpina—6 in. Useful for spring hedging and rockeries; pure white flowers. Seeds, ptk., 10c.

Bellis Perennis (Double Daisy)
Improved finally double-flowering, white and pink. Seeds, ptk., 10c; Plants, $1.00 per dozen.

Carnation
After a few years' trials, we have proved these to lie quite hardy with ordinary protection. Large double flowers, in bloom all summer.

Grenadin, Mixed—Seeds, ptk., 15c.


Cerastium
*Tomentosum (Snow in Summer)—4 in. Silvery white foliage, covered with snow-white flowers in early summer. Seeds, ptk., 15c.

CANTERBURY BURLS


Double White, Double Blue, Double Pink *Double Mixtures. Each of the above, ptk., 10c.

Campanula Pyramidalis (Chimney Bellflower)—Mixed, 5-6 ft. Pkt. 10c.

Centaura (Hardheads)
A good plant for the border or wild garden, with thistle-like flowers. Blossom in July-August.


*Montana Blue (Hardy Cornflower)—2 ft. June-September. Beautiful blue. Seeds, $0.50 per doz.

Chrysanthemum
Old-Fashioned Types—Double Aster-like flowers, Colors, Red, Bronze, White Pink and Yellow. (Plants only.)

*Pom-Pom—Minature types, White, Pink, Bronze, Yellow, Red. (Plants only. Japanese Types—These are the harder early flowering selections from those flowered yellow or Greenhouse types. Yellow, Pink, Lavender and White. (Plants only), 50 each; $5.00 each.

Coreopsis
One of the most popular hardy perennials, of a graceful form, blooming June to October.

*Lanceolata Grandiflora—2 ft. Large, orange-yellow flowers on long graceful stems. About the best yellow cutflower blooming incessantly. Pkt., 10c.

Dianthus (Hardy Pinks)
These very desirable sweet-scented, low-growing, early blooming and free flowering Hardy Garden Pinks are unequalled for the borders.


Double Mixed—Fine for cutting. Pkt., 10c.

Dichroa (Spectabilis)
*(Bleeding Heart or Sea Flower)—An old-fashioned favorite, at home in any part of the hardy border, and especially values for planting in the shade. Strong roots. Each, 75c; doz., $8.00.

Doronicum
Excelsum—Large bright yellow flowers and one of the most effective very early spring flower. It is also a splendid flower for cutting, as it carries well and stands a long time; succeeds everywhere. Plants, 50c each; $5.00 per dozen; seeds, ptk., 25c.

Delphinium (Perennial Larkspur)
Few plants are so handsome as the perennial Larkspurs. The most important are the tall hybrids, varying from 1 to 6 feet, and from the palest lavender through every conceivable shade of blue to deep indigo.

Chinese Mixed—Pkt., 10c.

Double Mixed—3 ft. Pkt., 15c.

*Forsomus—3 feet; deep blue, white eye, open spike. Pkt., 10c.

Belladonna (Light Blue)—2 feet; flowers exquisite shade of turquoise blue. Pkt., 20c.

Bellamomus—This is a dark form of the popular light blue Belladonna with which it is identical in habit and growth, freedom of bloom. Pkt., 25c.

*Gold Medal Hybrids—Height 6 feet. Unquestionably the finest strain of mixed hybrizes offered. Large flowers on spikes two feet and over, the majority running in the lighter shades of blue. Mixed colors. Pkt., 25c.

P W's Wrexlam Hybrid Delphinium
See back cover Illustrations)

Coqet—Anemeth violet flowers on strong stems. Each bloom is delicately shaded with blue and set off with a gold brown centre. Seed ptk., $1.00.

Jenny Jones—Large blooms of pansy violet with vivid washes of real gentian. Seed Pkt., $1.00.

Purple Splendour—Very large spikes, Cornflower Blue, shaded amethyst. Centre of each bloom is a black brown and green “eye.” Seed Pkt., $1.00.

Nappy Thought—Outer petals tinted pale blue on background of pansy, violet, shaded with rosy amethyst. Seed Pkt., $1.00.

Cambric—Clear helix, splashed violet blue, with black eyes, semidouble. Seed Pkt., $1.00.

Queen Mauve—Pale violet horzontal, shaded with salvia blue, and white centre. Seed Pkt., $1.00.

Collection—Includes each of above 6 varieties for $5.00.

P.-W.'s Wrexlam Hybrids Mixed—All varieties. Pkt., $1.00.

Canterbury Bells

Aquilegia (Columbine)

DELPHINIUM (Perennial Larkspur)
P.-W.'s Perennial Plants and Seeds

We furnish plants of all the varieties listed below marked * at 25c each; $2.50 per dozen; $15.00 per 100. If by mail add 5c each; 30c per dozen for postage and packing.

**Digitals (Foxglove)**
These produce spires of blossoms, usually flowering in June and July.

**Gloxiniaeflora, White** — Flowers shaped and spotted like a gloxinia. Packet, 10c.
*Gloxinaeflora, Mixed Colors—Packet, 10c.

Papaver Mixed—Many colors, Pkt., 10c.

**Eryngium (Sea Holly)**
Handsome ornamental plants, growing from 2 to 3 feet high. The flower heads, which are produced from July to September, are useful to cut for vases or to dry for winter bouquets.

**Asmethinum—** The finely-cut, spiny foliage and the beautiful thistle-like heads are of glistening amethystine-blue. Packet, 10c.

**Eupatorium (Thorough Wort)**

*Coelestinum (Mist Flower)—** September-October. Light blue. 2 ft.

**Euphorbia**

*Polychroma—** April-May. Leaves oblong and dark green, floral leaves different shades of yellow at bloom time, make an compact bush. Little known but very desirable. Seeds, Pkt., 10c.

**Hardy Euphorbia**

Hardy Euphorbias are especially suited to partial and dense shade and will flourish there. They will not grow wild. When naturalizing in woodland they are fine subjects associated with Foxgloves, Violets, and other flowers. They make a grand effect in shady spots in any garden. Their culture is easy. (Ready March 1st.)

Adiantum Pedatum (Maidenhair Fern)—1 ft. The best dwarf fern.

Asplenium Felix-Fontina (Lady Fern)—2 to 3 ft. Fine delicate fronds, very hardy, will grow in the sun if well shaded. Packet, 10c.

Onoclea Struthiopteris (Ostrich Fern)—3 to 4 ft. Stately, handsome dark green fronds are very effective. Packet, 10c.

Plants of above three varieties—10c each; $1.00 dozen; $5.00 per 100.

**Paeonia (Matrica)**

Little Gem— Most of the hardy peonies are border plants and valuable summer cut flower, with large double white flowers; June until October, to 24 inches high. Packet, 10c.

**Funkia (Plantain Lily)**

These 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.

*Funkia—** Valuable by reason of its late flowering, lilac flowers in September.

**Gailhard (Blanket Flower)**

One of the showiest hardy plants, growing about 2 feet high and succeed- ing in full sun in a sunny position; beginning to flower in July and continue the entire season.

**Gailhard—** Variety, Crimson and Bronze, Composite flowers, variegated with shades of red and yellow. Packet, 10c.

**Geranium (Crane’s Bill)**

Very large flowers, in a great variety of colors. Pkt., 25c.

**Geranium—** A desirable plant; with rosy pink, or crimson flowers; blooms the entire season; 18 inches.

**PLANTS—** Any of above varieties marked * 25c per clump; $2.50 per dozen; $15.00 per 100. If by mail add 5c each or 30c per dozen for postage and packing.

**Geum (Avens)**

Pretty border plants, growing about 15 to 18 inches high and producing showy, bright-colored flowers from May to July.

**Arrococinum fl. pl. —** Brilliant scarlet double flowers. Pkt., 15c.

**Grasses (Hardy Ornamental)**

For large beds or groups on lawns or in borders, nothing can equal the Hardy Grasses, largely used in prominent positions in many of the finest public parks, etc.

**Gynemum Argenteum (Pampas Grass)**—White silvery plumes; blooms the second season; 5 feet. Packet, 10c.

**Eulalia Zabra (Zebra Grass)**—Light green, barred with creamy white across foliage, sweet. Packet, 10c.

**Variqeta —** Long, narrow, green leaves, striped with white; fine feathered plumes, 5 feet. Packet, 10c.

**Pennisetum Japonicum**—One of the most valuable for beds or specimens. Easily grown from seed, making nice plants the first year; 4 feet. Pkt., 10c.

**Gypsophila**

Graceful border and rock plants with small, pink, light stems. Greatly prized for cutting.

**Paniculata Flore Pleno—** Improved, the single-flowered type is no longer the last, the flowers forming miniature balls of white petals, 2-3 ft. July-August. Not quite fixed, but about 25 per cent come true. Seeds, Pkt., 25c.

**Paniculata (Baby's Breath)—** 2-3 ft. July-August. Small flowers on branched stems, so thick as to give the appearance of a white lace-like effect. Seeds, Pkt., 10c.

**Hesperis Matronalis**

Sweet Rocket—Evening Scented Stock)

Delightful white, pale pink or pink flowers, for garden or cutting, 2-3 ft. June-August. Sow in Spring in boxes and transplant to the open ground in April for later bloom.

**Papaver Purple—** Purple, ½ oz., 30c; Pkt., 10c.

**Alba—** White. Seeds, pkt., 10c.

**Helenium (Sneezewort)**

Delightful perennials allied to the Helenium, with yellow or orange, splendid and lasting as cut flowers.

**Riverton Gem—** Covered from August to October with brilliant old gold and splashes of darker shades, changing later to wall-flower red. 3½ feet. Pkt., 15c.

**Helianthus (Hardy Sunflower)**

Hardy, perennial Sunflowers flourishing splendidly in any garden, city or country.

**Maximilian—** Small and graceful flowers of medium size on stems 2-4 feet long, blooming from August to October. Packet, 25c.

**Perennials Varieties, Mixed—** Pkt., 15c.

**Hemopilos (Yellow Day Lily)**

Popular hardy lilies usually flowering in the Lily family. They succeed everywhere and may be included in every border of old-fashioned hardy plants.

**Ixia (Yellow Day Lily)—** The best known variety; very fragrant, deep lemon-yellow flowers in June and July. Packet, 10c.

**Hibiscus (Rose Mallow)**

Shrub-like plants, with handsome green foliage, bearing throughout summer large bright flowers, from 3 to 5 inches in diameter. August-September. Very hardy. Suitable for garden and indoor use when cut. 3 to 5 feet high.

**Mixed Mallow Marvels—** Grand assortment. Seeds, Pkt., 10c.

**Hollyhock**

One of the best hardy garden flowers. Makes a charming hedge or background. 5 to 6 ft. August-September.


**Double Mixture—** Finest shades in perfect flowers. Pkt., 10c.

**Single Varieties—** Red, Pink, Black, Flesh, Rose, White, Salmon, Mixed. Each packet, 10c.

**Iberis (Perennial Candytuft)**

Dwarf evergreen plants, 6 to 10 in., covered with blossoms in spring and early summer. Excellent for rockeries or borders where bright dwarf masses are wanted.

**Gibralterica—** Pinkish white. Seeds, pkt., 10c.

**Sempervirens—** Flowers form a sheet of whiteness. Seeds, pkt., 15c.

**Incarnilla**


**Heuchera (Alum Root)**

They are of the simplest cultiva-
tion, and thrive well in ordinary gar-
den soil. Their dainty sprays of flowers make them invaluable for cutting.

P.-W.'s Perennial Flower Plants and Seeds

We furnish plants of the varieties marked * listed below. Prices except where otherwise noted—Field Grown Plants: 25c each; $2.50 per dozen. $15.00 per 100. If by mail add 5c each; 30c per dozen, for postage and packing.

Liatris (Blazing Star, or Gay Feather)
*Pycnostachys—Showy and attractive native plants, succeeding anywhere, producing large spikes of light rosy-purple flowers in July and August; 5 feet. Seeds, pkt., 10c.

Linaria
*Cymbalaria (Kenilworth Ivy, or Mother of Thousands) + Lavender and purple. A charming, neat, hardy perennial trailing plant, suitable for baskets, vases, pots and rock work. Seeds, pkt., 10c.

Linum (Flax)
*Perenne—A desirable plant for the border or rockery, growing 1½ feet high, with light graceful flowers and large blue flowers all summer. Pkt., 10c.

Lobelia
*Cardinalis (Cardinal Flower). Handsome border plants. Rich, large cardinal flowers; strong plants, often producing 10 to 15 spikes, 2½ to 3 inches long. Thriving in any ordinary garden soil, but preferring a moist, damp loam, where they will not suffer from drought. Blooms from early in August till late in September. Pkt., 10c.

Lupinus (Lupine)
Effective plants, producing large spikes of flowers; blooming in May and June. They require only well-prepared garden soil, preferably in a semi-shady location. *Polyphyllus—Clear blue. Pkt., 10c.

Lycnis Campion, Lamp Flower, etc.)
Of the easiest culture, thriving in any soil, and this, in addition to their brightness, has brought them into high favor with lovers of hardy plants.

*Chalcedonica (Jerusalem Cross)—A most desirable plant, heads of brilliant orange-scarlet in June and July; grows 2 to 3 feet high. Pkt., 10c.

Myosotis (Forget-Me-Not)
The true Forget-Me-Not—a lovely dwarf plant for rock gardens and flower places, spreading rapidly and carpeting the ground. Makes excellent edgings and carpetings for beds or borders of perennial plants. We list the seeds of Alpestris varieties among annuals as they are better treated as such by those who have no hotbed or cold frame accommodations for wintering the young plants. 4 to 9 in.

*Palustris spremerophens—Dwarf blue, in flower from early spring until autumn. Seeds, pkt., 25c.

*Papaver (Poppies)

*Rubra—Bright rosy crimson. Seeds, pkt., 10c.

White Pearl — Large flowering white. Seeds, pkt., 15c.

Mixed—The above colors. Seeds, pkt., 10c.

Lavandula (Lavender)
*Vera—This is the true Sweet Lavender; grows about 18 inches high; delectably fragrant blue flowers in July and August. Seeds, pkt., 10c.

*We furnish plants of the above varieties marked * except where otherwise noted field grown, 25c each; $2.50 per dozen; $15.00 per 100. If by mail add 5c each; 30c per dozen, for postage and packing.

Pentstemon (Board Tongue)
The Pentstemons bloom persistently through the summer, and are found very useful for cut-flowers or for color masses in the garden. Easily grown in any garden soil.

*Large Flowering Newer Hybrids—Splendid assortment of colors. Seeds pkt., 15c.

Phlox (Hardy)

Physalis
*Chenile Bell Flower or Balloon Flower—Very handsome border plants of the Campanulaceae family, the flowers in bud having the appearance of inflated balloons, they flower from June to September.


Primula (Primrose)
*These Hardy Primroses are among our most delightful spring flowers. They require a partially shaded location.

Auricula—6 inch. Flowers in early spring in colors of yellow, brown and red. Seeds, pkt., 10c.

Japonica Mixed—Pkt., 15c.

*Veris (Elatior) (Grandiflora)—The pale yellow Oxlip, bearing flowers in May. Pkt., 10c.

Pyrethrum (Pyrethrum)
One of the most valuable of our early summer flowers. Charming color, and wonderful lasting properties as a cut flower. Flowers in May and June, and frequently in August and September; in all shades of rose and pink.

Roseum, Double Mixed — Extra choice, selected seed. Only a small percentage will double, balance will be semi-double and single in fine variety. Pkt., 25c.

*Roseum Hybrida grandiflora, Single Mixed—Pkt., 15c.

Perennial Seed Collection
12 packets for $1.00
Your selection of one packet each of any twelve varieties on our list, $1.00. Expect an added interest when the flowers are in the garden.
P.-W.'s Perennial Flower Plants and Seeds

We furnish plants of the varieties marked * listed below. Prices except where otherwise noted—Field Grown Plants: 25c each; $2.50 per dozen; $15.00 per 100. If by mail add 50c each; 30c per dozen, for postage and packing.

Rudbeckia (Cone Flower)

The Rudbeckias are very decorative plants for shrubbettes, flower borders or side of auto drives, thriving in any good garden soil. Golden Glow is perhaps the best known kind, although they are all worthy of a trial, especially the Puppurea for its wine-red color.

*Hirta (Black-Eyed Susan)—1-3 ft.
Speciosa (Newman)—3 ft. Rich golden yellow with central bright disc.
*Sauierazzia (Golden Glow)—July-October. Yellow. 5 to 7 ft. Seeds, pkt., 10c;
*Sedum—July-October. Yellow. 5 to 7 ft. Seeds, pkt., 10c;
Puppurea Grandiflora, Syn., Echinacea Pupurea (Purple Cone Flower)—3 ft. September; large handsome crimson-purple flowers with dark central disc. Pkt., 10c.

Salvia

Beautiful plants, with long spikes of tubular blue flowers.

*Pitcairnii (Meadow Sage)—Makes a grand showing in the fall and is without a doubt one of the best of all autumn blue flowers. August and September. 4 feet. Pkt., 10c.

Scabiosa (Pincushion)

*Caucasia Perfecta—Light blue flowers on long stems; fine for cutting. 18 in. June-October. Seeds, pkt., 10c.

Sedum—July-October. Yellow. 5 to 7 ft. Seeds, pkt., 10c.

Stoloniera. One of the most desirable; flat succulent leaves; flowers purple-pink; July and August. 6 inches. Pkt., 25c.

Plants of any of above three varieties—Each, 35c; $3.50 per doz.

Statice (Sea Lavender)

Large spreading panicles of light graceful flowers, much prized for winter decoration, chiefly for the interior of leaved and flowers. Pkt., 10c.

Stokesia (Stokes Aster)

*Cyanea—18 inches July-October. Flowers rich blue, like a giant cornflower, very distinct. Seeds, pkt., 10c.

Sweet William

(Dianthus Barbatus)
The varieties offered are an improvement on the old-fashioned kinds. Sweet Williams look well in solid beds of masses and require a good, rich, well manured soil to grow them to perfection, excellent border plants and fine for cut flowers. Plants grow 18 to 24 inches high.

Single Varieties

Scarlet Beauty—A charming and distinct color. Pkt., 15c.
Copper Red—A new and rich color. Pkt., 15c.

Diadematus—One of the prettiest; flowers rose, spotted and sprinkled with white. Pkt., 10c.
Johnson's Giants—The range of color includes shades which are not to be found in other strains, and the peculiar and delicate markings on the flowers are most attractive. Pkt., 15c.
Nigrescens—Almost black. Pkt., 10c.

Pink Beauty—(Newport pink) Pkt., 10c.
Albus—White. Pkt., 10c.

Roses—Pink. Pkt., 10c.
*Single Giant-Flowered Mixed—Pkt., 10c.

Double Varieties

White—Pkt., 10c.
Rose—Pkt., 10c.

Blood-red—Pkt., 10c.
*Double Giant-Flowered Mixed—Pkt., 15c.

Tritoma (Kniphofia) (Torch Lily, Flame Flower, Red-Hot Poker)

Very handsome and showy border plants. Flowers borne in compact form on stout 3 and 4 ft. stems, having the appearance at a distance of orange and red colored spear heads. Require protection during winter, unless in a very sheltered position.


Veronica (Speedwell)

*Longifolia Subsessilis (Japanese Speedwell)—The showiest and best of the Speedwells, from a bushy plant 2 to 3 feet high, with long dense spikes of deep blue flowers from the middle of July to early in September. Pkt., 15c.

Vinca

Valuable for rockeries or makes a grand evergreen carpet under and about shrubs and trees.

Minor (Grave Myrtle)—4 in June. Green foliage, large blue flowers. Plants, 25c each; doz., $2.50; 100 $12.00. Seeds, pkt., 10c.

Viola (Violet)

Single—Deep blue, single violas. Seeds, pkt., 10c. Plants, 15c each; $2.00 doz.; $12.00 per 100.

Wallflower

The old fragrant favorite; mixed colors, including yellow, brown, etc. Need winter protection. Seeds, pkt., 10c. Plants, 15c each; $1.50 per doz.

Yuca (Adam's Needle)

Filamentosa—6 to 8 ft. or more, June-July. Handsome creamy white flowers, much branched and densely packed with bloom, with sword-like foliage. Seeds, pkt., 10c.
1-year Plants, 25c each; $2.50 2-year Plants, 50c each; $5.00 4-year Plants, $1.75 each; $18.00 doz.

PLANTS—Any of above varieties marked * 25c per clump; $2.50 per dozen; $15.00 per 100. If by mail add 50c per dozen for packing and postage.
How to Grow from Seed
All annual flowers are easily and most successfully grown from seed and offer a large field for selection. No matter for what purpose you may want flowers—for cutting, for garden beds, for color, or for foliage effect, you will find ample material among them from which to select. In buying flower seeds it is a matter of greatest importance to you to know that the seeds you are getting have been produced from the best plants—those bearing the finest flowers. It is only through great care in breeding and constant and minute careful re-selection, that plants and flowers are brought up to and kept at a high standard of perfection.

Our aim is to secure the very best obtainable, both of home and foreign growth, adaptable to our intermountain region. And we have spared neither pains nor expense with this object in view.

Sowing of Annuals
All annuals can be sown in the garden in this vicinity in April and May when the ground is warm either in a seed-bed or directly in the spaces where they are to grow. There are some annuals, such as Poppies, Eschscholtzia, Monetette, Centaurea, and the like, while any amount of lack of fibrous roots, cannot be transplanted without a great set-back to the plant. These should be sown, either broadcast or in rows, in the location desired. Most of the annual flowers, however, benefit by being transplanted, as it develops for them a better root-system. These are better started in a cold-frame or in a specially prepared seed-bed of rich soil, deeply dug and finely sifted on top. Sow the seed in shallow drills or in squares of a convenient size, parting off with lath or other means. If flower seeds are small and can only be covered with about 1/4 inch of soil; the very fine seeds are simply pressed into the soil. Water carefully through a fine nozzle so as not to wash the seed out and keep the soil moist constantly.

On warm, sunny days some shade should be given during mid-day, when the seedlings are large enough to transplant into permanent places. Always remember that flowers need rich soil, an open sunny situation, and sufficient space between plants for proper development. All our Flower Seeds are delivered anywhere in the United States. Our packets contain a liberal quantity of seed.

AIDS IN SELECTING ANNUAL FLOWER SEEDS FOR SPECIAL PURPOSES

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<td>Dwarf, Tall</td>
<td>Dusty Miller, Lobelia Comp.</td>
<td>Ageratum, Antirrhinum, Balsam, Celosia, Lobelia Comp.</td>
</tr>
<tr>
<td>Dwarf, Dwarf</td>
<td>Lobelia Comp.</td>
<td>Ageratum, Antirrhinum, Balsam, Celosia, Lobelia Comp.</td>
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<td>Ageratum, Antirrhinum, Balsam, Celosia, Lobelia Comp.</td>
</tr>
</tbody>
</table>

PLANTS SUITABLE FOR POTs that may be grown from seeds

| Aeric, Ateratum, Antirrhinum, Dwarf Cosmos | Cyclamen, Heliotrope, Mignonette, Nasturtium, Petunia, Primrose, Stocks |
| Aeric, Ateratum, Antirrhinum, Dwarf Cosmos | Cyclamen, Heliotrope, Mignonette, Nasturtium, Petunia, Primrose, Stocks |
| Aeric, Ateratum, Antirrhinum, Dwarf Cosmos | Cyclamen, Heliotrope, Mignonette, Nasturtium, Petunia, Primrose, Stocks |

Partly Shady Places

| Antirrhinum, Balsam, Bumble, Lace Flower | Alyssum, Ageratum, Antirrhinum, Begonia, Lobelia, Petunia, Petunias, Primrose, Stocks |
| Antirrhinum, Balsam, Bumble, Lace Flower | Alyssum, Ageratum, Antirrhinum, Begonia, Lobelia, Petunia, Petunias, Primrose, Stocks |
| Antirrhinum, Balsam, Bumble, Lace Flower | Alyssum, Ageratum, Antirrhinum, Begonia, Lobelia, Petunia, Petunias, Primrose, Stocks |

Dropping Plants for Vases, Hanging Baskets, Vanda, Baskets, ETC.

| Alyssum, Ageratum, Antirrhinum, Bellis, Bumble, Lace Flower | Alyssum, Ageratum, Antirrhinum, Bellis, Bumble, Lace Flower |
| Alyssum, Ageratum, Antirrhinum, Bellis, Bumble, Lace Flower | Alyssum, Ageratum, Antirrhinum, Bellis, Bumble, Lace Flower |
| Alyssum, Ageratum, Antirrhinum, Bellis, Bumble, Lace Flower | Alyssum, Ageratum, Antirrhinum, Bellis, Bumble, Lace Flower |
BORDERS OF ANNUAL FLOWERS

Arranged for continuous bloom throughout the summer and autumn months, these will not only be a feature in the garden, but will also furnish an abundance of cut-flowers for the house.

A hotbed is not necessary. You can sow all these seeds right in the flower-bed in late April. In preparing the soil, add a liberal quantity of well-rotted manure, humus, or leaf-mold, dig in well, pulverize the surface, mark off the spaces, cover the seed with about 1/4-inch of sifted soil, and keep moist until the plants are up and well established. You may have to thin out where plants have come up too thick.

**BORDER No. 1. An attractive arrangement for the foreground of shrubbery borders or foundation plantings.**

1. Larkspur, Giant Stock-fl. Indigo
2. Giant Dahlia-Zinnia, Exquisite
3. Calendula, Orange King
4. Cosmos, Giant Early-flowering Pink
5. Giant Dahlia-Zinnia, Oriole
6. Marigold, African Orange Queen
7. Lavatera
8. Cornflower, Selected Double Blue
9. Giant Dahlia-Zinnia, Old Rose
10. Scabiosa, Azure Fairy
11. Arctotis grandis
12. French Marigolds, Glorious
13. Dimorphotheca aurantiaca
14. Phlox Drummondii, Chamois-Rose
15. Lupins, Annual Blue
16. Candytuft Lilae
17. Snapdragons, Giants-flowered
18. Marigold signata pumila
19. Ageratum, Blue
20. Phlox Drummondii, Isabella
21. French Marigold
22. Annual Blue Anchusa
23. Chinese Woolflower, Crimson
24. Erysimum, Orange Beauty
25. Aster, American Beauty Rose

One Packet Each of Above 25 Choice Annuals—Regular Value $2.75, for $2.26, postpaid.

**BORDER No. 2. An attraction in the garden and a place where you will not be disappointed when you want flowers for cutting.**

1. Giant Zinnias, Orange
2. Cosmos, Giant Early White
3. Larkspur, Giant Hyacinth-fl. Lilac
4. Helianthus cucumerifolius
5. Larkspur, Giant Hyacinth-fl. Blue
6. Cosmos, Giant Early Pink
7. Helichrysum, Assorted
8. Scabiosa, Azure Fairy
9. Chrysanthemum, Morning Star
10. Salpiglossis, Mixed
11. Calliopsis, Golden Wave
12. Giant Zinnia, Salmon-Pink
13. Aster, Pink Creo
14. Gaillardia, Giant Double Mixed
15. Cornflower, Double Blue
16. Calendula, Lemon Queen
17. Zinnia, Dwarf Pumila, Dble Old Rose
18. Lupins, Assorted Annuals
19. Aster, King Violet
20. Phlox Drummondii, Brilliant
21. Petunia, Violacea
22. French Marigold, Gold-striped
23. Dianthus incarnatus splendens
24. Candytuft, Giant Hyacinth-fl.
25. Venebus, Mammoth Mixed

25 Packets, one each of above Choice Annuals (Regular Value $2.50) for $2.00, postpaid.

**BORDER No. 3. A foundation planting with annuals**

1. 2 pks. Dahlia-Zinnias, assorted
2. 1 pkt. Helianthus cucumerifolius, Stella
3. 1 pkt. Larkspur, Double Branching
4. 1 pkt. Lavatersa, Sunset
5. 2 pkts. Balsam, Double
6. 2 pkts. Eschscholtzia, Golden West
7. 3 pkts. Scabiosa
8. 2 pkts. African Marigold
9. 100 Sweet Alyssum, Little Gem

9 Varieties, 14 Packets, including Alyssum border for $1.50, postpaid.

$2.98
Ageratum
One of the best summer blooming plants grown from seed, providing rare shades of blue.


Album—White. Pkt., 10c.

Ageratum

Amaranthus
Brilliant foliaged, three feet high. Useful in borders or for the center of large beds. They thrive in a hot, sunny location.

Tri-Color (Joseph's Coat). — Pkt., 5c; ¼ oz., 20c.

Achusa

Capensis (Summer Forget-me-not) — 2 feet. A hardy annual which grows two feet high, branching freely and bearing a profusion of lovely flowers similar to the forget-me-not, though much larger and of finer color. Pkt., 10c.

Arctotis Grandis (African Daisy) A handsome annual which forms branched bushes 2 to 3 feet high; its flowers are large, pure white on the upper surface, the reverse of petals pale lilac-blue. Pkt., 10c; ¼ oz., 25c.

Aubrieta


Amaranthus

Amaranthus
Brilliant foliaged, three feet high. Useful in borders or for the center of large beds. They thrive in a hot, sunny location.

Amanthus

Amanthus

Acorrinum

Antirrhinum

Acorrinum

Antirrhinum

Browallia

Browallia的一种我们最喜欢的多花的和多花的 bedding bedding plants, covered with rich, beautiful winged flowers during the summer and autumn months, supplying a shade of intense blue, very uncommon; grows freely in any rich soil; blooms freely in the winter if lifted in autumn and cut back.

Semi-Tall Sorts

Semi-Tall Sorts

Tall Maximum

Tall Maximum

New Tall Maximum

New Tall Maximum

Semi-Tall Sorts Mixed

Semi-Tall Sorts Mixed

Tom Thumb Varieties

Tom Thumb Varieties

Height 8 inches. For edging and pot plants. Pink, white and scarlet. Each of the above packages, 10c; pks., 25c; ¼ oz., 30c.
ASTERS

During the late summer and early fall the garden is usually a riot of reds and yellows, so the Asters in their dainty and distinct colors as well as their many attractive forms are a pleasing addition. The long stems make them desirable for cut flowers and the blooms last long in water. It should be remembered, however, in regard to Asters that good culture is essential in order to obtain an abundance of fine flowers.

**Giant Crego** The flowers measure four to five inches in diameter, and are borne on stems twelve inches or more in length. Their lastings qualities when cut are unsurpassed.

- White, Shell Pink, Rose Pink, Crimson, Lavender, Dark Blue, Purple.
- Each of the above, pkt., 10c; any 3 pkts. for 25c; 1/4 oz., 60c.
- Mixed all colors—Pkt., 10c.

**Ostrich Feather** The finest type of the Giant Comet, or Ostrich Feather type of Aster.

- White, Soft Pink, Lavender, Rose, Crimson, Silvery Lilac, Light Blue, Dark Blue.
- Each of the above, pkt., 10c; any 3 pkts. for 25c; 1/4 oz., 50c.
- Mixed, all colors—Packet, 10c.

**American Beauty** Similar in type of flower and growth to the Giant Branching Asters, but blossoms are produced on much longer and heavier stems. The flowers are fully double.

- White, Carmine-Rose, Purple, Lavender, September Beauty, Rose Pink.
- Each of the above, pkt., 15c; any 3 pkts. for 35c; 1/4 oz., 75c.
- Mixed all colors—Pkt., 15c.

**The King** The habit is similar to the popular Giant Branching. In form the flower is entirely distinct; petals somewhat resembling the quilled varieties, but much larger and broader.

- White, Pink, Rose, Crimson, Violet, Lavender.
- Each of the above, pkt., 10c; any 3 pkts. for 25c; 1/4 oz., 50c.
- Mixed, all colors—Pkt., 10c; 1/4 oz., 50c.

**Balloon Vine**

**Love in a Puff**—A clean, free-growing vine reaching 10 to 15 feet, bearing numbers of large, round, inflated seedheads resembling miniature balloons. Pkt., 5c; oz., 30c.

**Double Balsam**

(Lady Slipper)

An old favorite garden flower, producing its gorgeous masses of brilliant double flowers in profusion. Balsams like the hot sun, rich soil and plenty of water.

- Double Rose and Camellia-flowered Mixed—Pkt., 10c; 1/4 oz., 25c.
- Invincible Mixed—Mixed from separate colors and includes everything that is desirable in Balsams. Pkt., 15c; 1/4 oz., 45c.
- Dwarf Mixed—8 inches, perfect little mashes with double and semi-double flowers. Pkt., 10c; 1/4 oz., 25c.
- Goliath White—1 foot—Pkt., 10c.
- Goliath Scarlet—Extremely brilliant, large and very double. Pkt., 10c.
COSMOS
4 to 6 feet
One of the most showy and useful of our garden plants. Plants are very bushy. Flowers borne on long delicate stems. Foliation very finely cut.

Early Flowering Mammoth—These are recommended for planting north of the latitude of Middle Illinois, as the late, or Giant flowered varieties are nearly always caught by early frost.

White, Pink, Crimson, Mixed. All colors. Each of the above, pkt., 10c; 1/4 oz., 25c.

Late Giant Flowered—Crimson, White, Lady Lenox, Pink Lady Lenox, Giant Mixed.

Each of the above, pkt., 10c 1/2 oz., 25c.

Anemone Flowered
These differ from the other cosmos in the formation of the center of the flower, which develops a crown or crest, like an anemone, the guard petals remain the same. Pink Beauty, White Queen, Mixed.

Each of the above, pkt., 10c 1/2 oz., 25c.

Celosia
(Coxcomb)

Crested Dwarf Sorts
President Thiers—Fine dwarf habit, with bronze foliage, and large handsome velvety crimson combs. Pkt., 10c; 1/4 oz., 40c.

Dwarf Mixed—Pkt., 10c; 1/2 oz., 50c.

Plumosa or Plumed Varieties
21/2 to 3 feet
They form pyramidal bushes branch- ing out in an acacia shape, and the numerous massive plumes which resemble ostrich feathers, wave gracefully above the foliage.

Plumosa Mixed, all Colors—Pkt., 10c; 1/2 oz., 25c.

Promade of Castle Gauld—Plants grow two to three feet high, the bloom starting early with a central head, round and stobular, which often reaches the immense size of two feet in circumference. Pkt., 15c; 1/4 oz., 50c.

Chinese Woolflower (Celosia Chil- disi)—Plants grow two to three feet high, the bloom starting early with a central head, round and stobular, which often reaches the immense size of two feet in circumference. Pkt., 15c; 1/4 oz., 50c.

Corymbosa—Youthful bloomers, with a tuft of stamens before the petals. Pkt., 10c; 1/2 oz., 25c.

CALLIOPESI
(Tickseed)—6 inches to 2 feet. Very graceful border plants, supplying throughout the season an abundance of showy flowers of yellow, orange and dark brown varieties. Will thrive anywhere.

Crown of Gold (Coronata Maxima)—Splendid cut flower. Pure golden yellow 2 inches across, on long, wiry stems; hardy and blooms nearly all season. Pkt., 10c; 1/2 oz., 35c.

Drummondii Gold—2 feet. Flowers yellow, white, or crimson, borne in long spikes. Pkt., 10c; 1/2 oz., 35c.

Tall Varieties, Mixed—Valuable for wild gardens, and for cutting. Pkt., 5c; 1/2 oz., 20c.

Dwarf Varieties, Mixed—Valuable for small mixed beds and borders. Pkt., 5c; 1/2 oz., 25c.

Cobaea
Scandens Cathedral Bells—30 feet. One of the handsomest and rapid growing climbers. The flowers are bell-shaped and open a clear green but turn a beautiful purple lilac. Seed may be sown edgeways. Very vigorous and prolific bloomer. Pkt., 10c; 1/4 oz., 25c.

COLEUS
The handsomest foliage plant obtained from seed. The leaves are heart-shaped and handsomely crimped, toothed and frilled; their color combinations are remarkably rich. Pkt., 25c; 1/2 oz., $1.00.

Canyon Bird Vine
15 to 20 feet
A dainty vine with beautiful cut leaves and pretty, delicate flowers of a clear canary-yellow. Does well in the shade. Pkt., 10c; 1/2 oz., 25c.

Candytuft
They soon flower from seed and remain long in beauty. For massing in flower beds and borders and for edgings they are admirably adapted.

Giant Hesperanthus—Flowered White—1 foot. A grand border plant, bearing very large, hold spikes of snowwhite flowers, habit sturdy and compact. Pkt., 10c; 1/2 oz., 30c.

Dwarf, Hybrids, Mixed—Plants of fine, compact growth, covered with large flowers ranging in color from rose, salmon, coral-pink and delicately blushed to lilac and purple crimson. Pkt., 10c; 1/2 oz., 30c.

Mixed, all Colors—Pkt., 5c; 1/2 oz., 20c.

Chrysanthemum, Annual
Single Flowering Varieties
Morning Star—Primrose with golden yellow center. Pkt., 10c; 1/4 oz., 25c

Carnatnum Eclipse—Yellow with dark brown disk. Pkt., 10c; 1/4 oz., 25c.

Burridgenum—Banded with crimson, white and yellow. Pkt., 10c; 1/4 oz., 25c.

Golden Feather—Foliage striking yellow; flower with a crimson ribbon of color. Pkt., 10c; 1/4 oz., 25c.

Mixed Single Varieties—Pkt., 10c; 1/4 oz., 20c.

Double Mixed—Pkt., 10c; 1/4 oz., 20c.

Cosmos Single
Plants of the Hardy Chrysanthemums together with seeds and plants of a selected list of other beautiful hardy perennial flowers will be found on pages 25-29 inclusive.
Dianthus

(Garden Pinks)—1 foot
A popular annual variety distinguished for brilliant, contrasting colors appearing in each flower.

Single Flowering

Mirabilis—(Single Wonder Pink)—The petals are deeply cut into fine strips of threadlike fringes. All shades from pure white to deep purplish. Pkt., 10c; ¼ oz., 50c.

Chinese Single Mixed—Pkt., 10c; ¼ oz., 25c.

Japanese Single Mixed—Great range of colors. Pkt., 10c; ¼ oz., 30c.

Lacinatus Mixed—Single fringed flowers. Pkt., 10c; ¼ oz., 30c.

Lacinatus Splendens—The flowers are beautifully fringed and come in various shades of red with large white centers and white edges around the petals. Pkt., 20c; ¼ oz., 40c.

Centaura Cyanus

Centaura Cyanus

(Bachelor's Button or Cornflower)—2 feet. One of the most valuable blue flowers for the border. Re-seeds itself and may be used for naturalizing purposes. The double flowers are finest.

Single—Mixed, all colors; ¼ oz., 15c; pkt., 5c.

Double Flowering Varieties—White, Blue, Pink and Rose shades. Purple, Double Mixed, Dwarf Victoria, 9-inch Edging, blue. Each of the above, pkt., 10c; ¼ oz., 30c.

Centaura Imperialis

(Sweet Sultan)
The beautiful sweet scented flowers are borne on long, strong stems; when cut will last for several days in good condition. White, Dark Lilac, brilliant Rose, Purple Crimson, Deep Lavender, Mixed, all colors. Each of the above, pkt., 10c; ¼ oz., 30c.

Carnations

Easily grown either in flower-beds, borders, or pots.

American Hybrids—A race of large-flowered carnations, bearing handsome blooms on long, wiry stems. Pkt., 35 seeds, 25c.

Giant Margaret Mixed—Flowers of very large size, measuring 3 inches or more in diameter; colors include all the shades of white, pink, crimson and striped. Pkt., 100 seeds, 15c.

Cypress Vine

10 feet
It has a profusion of scarlet or white star-shaped blossoms, and its finely cut foliage is particularly ornamental.

White—Pkt., 10c.

Scarlet—Pkt., 10c.

Mixed—¼ oz., 30c; pkt., 10c.

Ivy-Leafed Scarlet—A rapid growing variety with deeply lobed, ivy-like leaves, and small scarlet flowers. Pkt., 10c; ¼ oz., 30c.

Cyclamen

(Alpine Violet)—1 foot
Charming house plants, with beautiful foliage and rich colored, fragrant flowers. May be successfully raised from seed with a little care and patience.

Giant Flowered Cyclamen—Mixed extra choice. 10 seeds, 20c; 20 seeds, 30c; 100 seeds, $1.20.

Centaura Imperialis

(Dimorphotheca—(African Golden Daisy))

Aurantiaca—An extremely showy annual daisy from South Africa, which suits our climate conditions perfectly. The bushy plants grow 12 to 15 inches high. The flowers, which are 2½ inches and over across, are a unique, rich, glossy orange-gold, with dark disc and halo. They bloom the greater part of the summer and fall. ¼ oz., 50c; pkt., 10c.

Erysimum (Fairy Wallflower)

Perovskyum (Orange Beauty)—A pretty annual, growing about 18 inches high, bearing throughout the summer dense racemes of brilliant orange-yellow Wallflower-like flowers, a rather unusual color in annuals. It is of the simplest culture. Sow the seed in the open ground in spring and give it a sunny position. ¼ oz., 50c; pkt., 10c.

Everlastings

Winter bouquets of your own growing make an attractive present for a friend, besides supplying a bit of brightness for your own home. The drying is a simple operation. Cut before fully expanded, bunch like sweet peas and hang on a line in a warm, dark, dry room. They will dry thoroughly in ten days.

Collection of one pkt. each of eight leading annual everlastings for 60c.
Hollyhocks (Annual) — 5 feet

These annual kinds, however, bloom the first year.

Everblooming Single Mixed — Large single flowers, exhibiting every shade known in Hollyhocks. Pkt., 10c; ¼ oz., 40c.

Everblooming Double Mixed — Double and semi-double. Pkt., 10c; ¼ oz., 35c.

Escholtzia (California Poppy) — 1 foot

The State flower of California. A bright free-flowering plant of low spreading growth with finely cut silvery foliage. Sow the seed where the plants are to remain.

Carmin King — Beautiful carmine rose color, both on the interior and exterior of the flower. Pkt., 10c ¼ oz., 25c.

Dainty Queen — Color tender blush or pale coral pink, deeper towards the edges with a ground of delicate cream. Pkt., 10c, ¼ oz., 25c.

Golden West — Flowers bright yellow and orange, penciled and blotched. Pkt., 5c; oz., 10c.

Mandarin — Inner side of the petals rich orange, the outer side brilliant scarlet. Pkt., 10c ¼ oz., 25c; ounce, 50c.

Many colors — Many shades. ½ lb., $1.00; oz., 35c; pkt., 10c.

Galahdaria (Blanket Flower)

They will produce from early spring until fall a continuous profusion of brilliantly colored flowers, red and yellow predominating. Of easy culture, sow where they are to remain.

Auroras — Deep red. Pkt., 10c; ¼ oz., 40c.

Picta Single Mixed — Pkt., 10c; ¼ oz., 25c.

Lorentziana Double Perfection Mixed — Large handsome heads of double quilled flowers in rich shades of red and yellow. Pkt., 10c; ¼ oz., 25c.

Galahdaria (California Poppy)

They produce from early spring until late fall a continuous profusion of brilliantly colored flowers, red and yellow predominating. Of easy culture, sow where they are to remain.

Many Sorts and Colors Mixed — Pkt., 10c; ¼ oz., 25c.

Dwarf Sorts Mixed — Neat globular, about 10 inches in height. Pkt., 10c; ¼ oz., 25c.

Gomphrena (Globe Amaranth)

A showy annual everlasting with clover-like heads.

Mixed all colors — Pkt., 10c; ¼ oz., 25c.

Lupinus

Annual Mixed — Pkt., 10c; oz., 30c.

Grasses

Ornamental Annual Mixed — 2 to 5 feet. These are most useful for winter bouquets when combined with everlasting flowers. They are easily grown in any soil. Pkt., 10c ¼ oz., 30c.

Helichrysum (Strawflower)

Helichrysums are an ornament to the garden when growing and are everywhere prized for the winter bouquets.

Mixed all colors — Pkt., 10c; ¼ oz., 30c.

Heliotrope 2 feet

Favorite on account of its delightful fragrance. Seed sown in the Spring makes fine plants for bedding out and are easily grown as Verbenas.

Mammoth Mixed — Large flowers ranging in shade from dark blue to lilac. Pkt., 15c; ½ oz., 50c.

Kochia New Giant

Hunnemania

Fumaniadelcea (Bush Escholtzia, or Yellow Tulip Poppy) — 1½ ft. The plants grow into a shrubby bush and produce their large cup-shaped flowers 3 in. across on stems 12 in. long. The color is of a clear, bright yellow; the petals are broad and crinkled, like crushed satin. The cut blooms keep in water two weeks. Pkt., 10c; ¼ oz., 25c.

Hybrida, Mixed — 2 ft. Shrubby plant with Verbena-like flowers in shades of white, red and yellow. May be grown in pots or set out in summer, remains in bloom late in autumn. They have an agreeable aromatic perfume. Pkt., 10c; ¼ oz., 30c.

Kochia

The New Giant (Summer Cypress, Burning Bush) — Grows 2 to 3½ feet high and resembles a close-clipped ornamental evergreen. The plant may be grown singly or in the form of a hedge or background. In early Autumn the whole bush becomes crimson or blood-red, whence the name of Mexican Fire Plant, Burning Bush, etc. ½ oz., 30c; Pkt., 10c.

Euphorbia

Variegata (Snow on the Mountain) — The flowers are inconspicuous; the foliage, however, is attractive; velvety and margined with white; 2 feet. Per ¼ oz., 20c; ½ oz., 50c; 1 oz., 10c.

Gypsophila

Gypsophila Elegans Grandiflora Alba (Angel’s Breath) — Two feet. This is an improved, large-flowered, pure white form of the annual Angel’s Breath; of free, easy growth. Several sowings should be made during the season to keep up a supply. Combined with sweet peas they make pretty bouquets. Pkt., 10c; ¼ oz., 25c.

Gourds

Twenty feet. These are desirable in many places where an immense amount of vine is wanted quickly. Most sorts are good for 20 to 30 feet in a season, and the blooms of some are quite striking and handsome.

Small Fruited Varieties, Mixed — Pkt., 10c; oz., 25c.

All Varieties, Mixed — Pkt., 10c; oz., 25c.

Dahlias

One of the best late summer and autumn flowering plants, and now enjoying a wide popularity, as easy to begin from seed as Nasturtiums; the double sorts will bloom the first season if the seed is sown before the beginning of April; the single sorts will bloom from seed sown in the open grounds as late as June, although an earlier start is better.

Peony Flowered Best Mixed — Pkt., 15c; ½ oz., 55c.

Double Cactus Best Mixed — Pkt., 15c; ½ oz., 55c.

Double Best Mixed — Pkt., 15c; ½ oz., 50c.

See page 22-23 for Dahlia Roots.

Larkspur (Annual Delphinium)

These handsome Larkspurs are very effective in borders and planted among shrubs. Sow seed in the open border either in early spring or late fall so germination may take place very early.

Stock Flowered

Dark Blue, Exquisite Pink, Flesh Pink, Lilac, Lustrous Carmine (Newport Pink), Sky Blue, White. Each of the above, Pkt., 10c; ¼ oz., 30c. Mixed, all colors — oz., 70c; ¼ oz., 20c; ½ oz., 45c; Pkt., 10c.

Giant Hyacinth-Flowered Mixed — 2 feet. Derives its name from the striking resemblance of the flowers to a double Hyacinth. Delicate colors. Pkt., 10c; ¼ oz., 25c; oz., 75c.
In late summer, when many bedding plants are past their prime, Marigolds afford a wealth of color that is simply invaluable.

**Double Tall Varieties—5 feet**
- **Lemon Queen African**—Pkt., 10c; ¼ oz., 40c.
- **Orange Queen African**—Pkt., 10c; ¼ oz., 40c.

**Tall African Mixed**—Extra large double flowers. Pkt., 10c; ¼ oz., 40c.

**Tall French Mixed**—Large bushes covered with a multitude of small double flowers. Pkt., 10c; ¼ oz., 30c.


**Dwarf French Double Sorta, Gold Striped**—10 inches.—Velvety maroon, striped gold. Pkt., 10c; ¼ oz., 20c.

**Dwarf French Double Mixed**—Low bushes, covered with small flowers. Pkt., 10c; ¼ oz., 20c.

**Mixture of Dwarf Marigolds Double and Single Varieties**—These dwarfs, compact strains are very attractive, each plant being covered with hundreds of small, bright flowers. ¼ oz., 30c; pkt., 10c.

**Single Dwarf Varieties**
- **Legion of Honor**—Flowers rich golden yellow, marked with velvety brown. Best for edging. Pkt., 10c; ¼ oz., 25c.
- **Signata Pumila**—A dwarf, compact, bushy plant, with beautiful, delicate, throat-like leaves, densely covered with flowers of bright golden yellow. Pkt. 10c; ¼ oz., 50c.

**Morning Glories**
- **Convolvulus Major**—Tall Varieties
  - White, rose, crimson, striped, dark blue, lilac.
  - Each of the above, pkt., 5c; any 6 pkts. for 20c.
  - Mixed, all colors—¼ lb., 35c; oz., 20c; pkt., 5c.
- **Convolvulus Minor**—Dwarf or Bush Varieties—1 foot. Are very showy and beautiful hardy annuals for flower beds and borders, also rockwork; they bloom for a long period and delight in sun.
  - Mixed, all colors—oz., 20c; pkt., 5c.

**Nicotiana**
- **Sweet Scented Tobacco Plant**—2 feet. One of the easiest annuals to raise and one of the most effective. The flowers open toward evening and emit a powerful perfume.

**Alpinia**—Most showy and profuse bloomer, giving a continuous display of waxy white flowers right through the summer and autumn. Pkt., 10c; ¼ oz., 50c.

Lavatera

**2½ feet**

The Lavateras or Annual Mallows are showy and effective plants covered during the entire summer with bloom.

**Splendens Alba**—Very large, silky, pure white flowers. Pkt., 10c; ¼ oz., 20c.

**Splendens Rosea**—Very large, bright rose flowers. Pkt., 10c; ¼ oz., 20c.

**Lavender Lace Flower**

**Didiscus coerulescens**—3 feet. Long-stemmed lavender flowers; look like blossoms of Queen’s Lace Handkerchief or Wild Carrot. A constant bloomer. The culture is not at all difficult, only the seed is somewhat slow in germinating. To be sown in May in partial shade where it is to remain. Pkt., 10c; ¼ oz., 50c.

**Lunaria (Honesty)**

**Anna (Biennis) (St. Peter’s Penny)**—Flowers purple, followed by silvery seed pods, prized for winter decoration. Annual but readily self-sows. Pkt., 10c; ¼ oz., 25c.

**Linum**

**Grandiflorum Rubrum (Crimson Flax)**—2 feet. One of the most brilliantly colored of summer annuals, flowers glowing crimson rose. May be had in bloom from May to October, by successive sowings. Pkt., 10c; oz., 30c.

**Lobelia Erinus Compacta**

This charming class forms compact little bushes about 6 inches high and are fairly sheeted with bloom throughout the season. Highly desirable for edgings, ribbon bedding and garden decoration as well as for pot culture.

**Crystal Palace Compacta**—6 in. Rich deep blue; dark foliage; the finest dark blue for bedding. ¼ oz., 50c; Pkt., 10c.

**Gracilis**—Light blue; light green foliage; trailing. ¼ oz., 10c; pkt., 10c.

**Mixed Dwarf**—Pkt., 10c; ¼ oz., 40c.

**Nigella**

**Love in the Mist**—½ feet

**Miss Jekyll**—A lovely variety, bearing on long stems large semi-double flowers of a lovely tender blue, nestling in fine feathery foliage. Pkt., 10c; oz., 30c.

**Ipomoea**

**Mexicana Grandiflora Alba** (White Moon Flower)—Covered with large white flowers every evening and cloudy day. Seeds should be started inside. Pkt., 10c; ¼ oz., 35c.

**Ipomoea Mexicana Grandiflora Giant Pink**—Soft lilac pink flowers. Pkt., 10c; ¼ oz., 25c.

**Marigold (Tagetes)**

**Signata Pumila** (Tagetes)

**Marigold Orange Queen**

**Ipomoea Imperialis (Japanese Morning Glory)** Mixed—The Japanese Morning Glory requires a warm situation. The south side of a wall or building where the plants are protected from the north and west winds will most likely be found beneficial for these vines. Pkt., 10c; oz., 25c.

**Ipomoea (Brazilian Morning Glory)** Mixed—The thickest and leaf stalks are covered with reddish brown hairs. The deeply lobed leaves are about nine inches across; flowers about two inches in diameter, of delicate texture, tinted pink with a five-pointed star of satiny pink, and are followed by curious seed pods. Pkt., 10c; ¼ oz., 25c.

**Moon Vine**

**Ipomoea (Sweet Scented Tobacco Plant)**—2 feet. One of the easiest annuals to raise and one of the most effective. The flowers open toward evening and emit a powerful perfume.

**Alpinia**—Most showy and profuse bloomer, giving a continuous display of waxy white flowers right through the summer and autumn. Pkt., 10c; ¼ oz., 50c.

**Nicotiana**—Bearing beautiful rosy carmine flowers. Pkt., 10c; ¼ oz., 25c.
**NASTURTIUMS**

These graceful flowers are so thrifty they do well in poor soil, and are so generally grown, we are apt to think of them with less regard than the more difficult and rarer blossoms. But wise gardeners know that no other flower has so rich a color range of these rare shades, and is so prolific of the blossoms needed to register in the garden bed or border. Inside the house, the orange, pink and red blossoms give a luminous color accent. The dwarf varieties are excellent for edging, particularly when one color is used to carry on a color scheme. The tall growing types are valuable for trailing from window boxes, or use on fence or trellis.

**Tom Thumb or Dwarf Types**

Aurora — Chrome yellow blotched crimson.  
Beauty — Scarlet splashed canary.  
Chocolate — Burnt bronze color, dark leaved.  
Empress of India — Very dark leaves, crimson flowers.  
Golden King — A golden yellow.  
King of Tom Thumbs — Intense deep scarlet, dark foliage.  
Lacinatum Mixed — The flowers are deeply lacinated and appear in many attractive colors.  
Pearl — Creamy white.  
Ruby King — Ruby red, dark leaved.  
Golden Cloth — The foliage is of bright yellow, while the flowers are intense scarlet.  
Ivy Leaved Mixed — Deep green leaves of distinctive ivy form. The flowers are beautifully fringed at the edge of the petals and at the throat.  

**Price, any of above, pkt., 5c; oz., 25c; lb., 50c.**

**Climbing or Tall Types**

Twilight — Yellow, marbled salmon rose.  
Vesuvius — Salmon rose, dark leaved.  
Von Molske — Ruby red.  
Price, each of the above, pkt., 5c; oz., 25c; lb., 50c.  

**Price, each of the above, pkt., 5c; oz., 25c; lb., 50c.**

**Lobbe's Nasturtiums**

(Tall)

This class has intensely brilliant colors and flowers, which are a true smaller than those of other sorts.  
Black Prince — Velvet black flowers, dark foliage.  
Cardinal — Scarlet flowers, dark foliage.  
Firefly — Foliage rich and dark, flowers rosy salmon underlaid with bright golden yellow.  
Flamingo — Magnificently lacinated orange flowers.  
King of the Blacks — Black-red, dark leaves.  
Queen Emma — Variegated leaves, deep scarlet flowers.  
Queen of the Morning — Variegated leaves, flowers aurora colored.  
Virclov (Rose Queen) — The best pink.  

Price, each of the above, pkt., 5c; oz., 25c; lb., 50c.  

**Price, each of the above, pkt., 5c; oz., 25c; lb., 50c.**

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### Collection No. 1

**Dwarf Nasturtium**

Our choice of 1 pkt. of each of 7 varieties for 25c

### Collection No. 2

**Tall Nasturtiums**

Our choice of one packet each of 7 varieties for 25c

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**Mignonette**

(Reseda) 6 to 12 inches  
No garden is complete without this fragrant plant of unassuming mien. One of the principal uses is for cutting purposes and combining in bouquets with other more pretentious blossoms without its delicate odor.  
Grandiflora — Large flowered. Oz., 20c; pkt., 5c.  
Peruvian Michet — It is the best Mignonette for all purposes, either outside or inside. It is an ever-bloomer, the flowers lasting until late in the fall. ¼ oz., 25c; pkt., 10c.  
Albus — Many shades and types. Pkt., 5c; oz., 25c.  
**Mirabilis**  
(Marvel of Peru or Four O'Clocks) 2 Feet  
This is another good old-fashioned flower of bushy habit, bearing hundreds of flowers during the season, of white, yellow, crimson and violet.  
Mirabilis (Continued)  
Mixed, all sorts and colors — ¼ lb., 40c; oz., 20c; pkt., 5c.  
Dwarf Mixed — 12 in. Pkt., 10c; oz., 35c.  
Sweet-Scented (Longiflora Alba) — White. Pkt., 10c; oz., 40c.  
**Myosotis**  
(Forget-Me-Not)  
They are considered among the best spring flowers and grouped with Pansies and Daisies the most lovely combinations may be obtained. Respond to good treatment and flourish in shady, moist situations.  
Alpestria Blue — Trailing habit. Pkt., 10c; ¼ oz., 40c.  
Alba — White. Pkt., 10c; ¼ oz., 50c.  
Rosea — Pink. Pkt., 10c; ¼ oz., 60c.  
Eliza Forrester — Flowers large, sky blue, with clearly defined white eye. Pkt., 10c; ¼ oz., 60c.
PANSIES

Pansies like cool weather, and the best way to grow them in the north is to start them in the late summer and carry the plants over in a cold frame. The plants will then come into flower with the first tulips. The violas will live over winter with a heavy much for protection, and are splendid for bedding.

P.-W.'s Best Giant Mixture

It includes the richest reds, coppers and bronzes, together with the most delicate rose-pink shadings: Pkt., 25c; 1/2 oz., 1.00.

Bougogne Giant Mixture—The flowers are of the largest size, great substance, fine form and are borne on particularly strong stems. They are mostly 3 and 5 blotched delicately veined. Pkt., 25c; 1/2 oz., 1.00.

Cassiers 3 and 5 Blotched Mixed—Mostly light shades with dark blotches. 1/4 oz., 75c; pkt., 26c.

Masterpiece (New Giant Curled or Spencer Pansies)—the petals are crimped and curled so the flowers appear double. Pkt., 25c 1/2 oz., 1.00.

Mixture of Orchid Flowered Varieties—Including only pretty tints and combinations of cream, primrose, and pale mauve, the flowers being exquisitely frilled and veined in contrasting colors. Pkt., 15c; 1/2 oz., 75c.

Paris Market—An improved strain of the Chinese Primrose with better flowers and more compact habit. 1/4 oz., 50c; pkt., 10c.

Cassianis—Each petal has a large blotch of deep violet on crimson fringed ground, with white edge. Pkt., 15c; 1/2 oz., 60c.

Rosy More—A bright purplish crimson margined with a clear white edge. Pkt., 15c; 1/2 oz., 60c.

Rudy Red—Pkt., 15c 1/2 oz., 50c.

Violet Blue—A very pleasing shade. Pkt., 15c; 1/2 oz., 50c.

Pure White—Pure white without blotches. Pkt., 15c; 1/2 oz., 50c.

Pure Yellow—Golden yellow without blotches. Pkt., 15c; 1/2 oz., 50c.

Bedding Mixed—Great diversity of colors, free flowering, blossoms slightly smaller than the Giant sorts. 1/4 oz., 40c; pkt., 10c.

Tufted Pansies (Viola Cornuta)

(Tufted Pansies) 3-6 Inches

Flowers all summer from seed sown in early spring, and are valuable for edging beds and borders. Require protection during winter.

Scotch Pansies—Produce flowers with "faces": the colors range from pale lavender to deep rich purple, many charming intermediate shades. Pkt., 25c; 1/2 oz., 75c.

Cornuta Mixed—Pkt., 10c; 1/4 oz., 60c.

Passiflora


Pennisetum

Longistylus—An Abyssinian grass with long, feathery, bearded bristles. Pkt., 10c 1/4 oz., 30c.

Ruppeliaanum—The spikes are longer and more graceful. Used to border canna beds. Pkt., 10c; 1/4 oz., 30c.

Polemonium (Jacob's Ladder)

Coeruleum (Greek Valerian)—2 feet. Beautiful sky-blue spikes. Pkt., 10c; 1/4 oz., 25c.

Grandiflorum Album—Pure white. Pkt., 10c; 1/4 oz., 25c.

Primula Chinensis

(Chinese Primrose)

This is one of the most charming winter flowering house plants. The flowers are remarkable, not only for size, beauty and brilliancy of the colors, but for the great substance of the petals.

Malacoides—10 inches. The flowers are of a delicate shade of lavender, produced in whorls on tall graceful spikes in great profusion. Pkt., 25c.

Forski (Baby Primrose)—10 inches. The flowers are very graceful, of the most pleasing rose color with yellow eyes and are borne on erect stems. Packet, 15c.

Primula (Obconica Grandiflora)—This is one of the most beautiful Primulas for pot culture and also succeeds well in the open border during the summer.

Giant Mixed—Pkt., 200 seeds, 25c.

Pyrethrum

Annual

Aureum (Golden Feather)—6 inches. One of the best plants for edging, grown for its beautiful yellow foliage. Most successfully treated as an annual. Pkt., 10c; 1/4 oz., 25c.

Phlox Drummondii

The Phloxes are the showiest and most easily raised of all Annuals. All the flowers of the rainbow are represented with all possible variations of stripes, veins and eyes of contrasting shades. Should be sown in the ground as soon as danger of frost is over and in a few weeks the heads are a blaze of color. Pkt., 10c.

Grandiflora Varieties—1 foot. This section has beautiful, round-petaled flowers which overlap each other.

Alba—Pure white.

Alto-purpurea—Black brown.

Brilliant—Rose with dark eye.

Carnea— Flesh color.

Chamois Rose.

Coccinea—Fiery scarlet.

Coelorea Striata—Blue striped.

Crown Prince—Salmon scarlet.

Isabella—Yellow.

Kermesina Splendens—Vivid crimson, with white eye.

Golden Star—Pink with gold star.

Rosea—Pink.

White—Each of the above, pkt., 10c; 1/4 oz., 50c.

Drummondii Mixed—Good mixture. 1/4 oz., 40c; pkt., 10c.

Cupisdata Mixed—Mixture of star-shaped flowers. Pkt., 10c; 1/4 oz., 40c.

Semi—Double Varieties Mixed—Pkt., 15c; 1/4 oz., 75c.

Nana Compata Dwarf—8 inches

These are much superior to the other Phloxes for ribbon bedding or borders. The plants are very symmetrical in neat, little bushes, covered with flowers during the whole summer and fall.

Fireball—Blood-red. Pkt., 15c; 1/4 oz., 75c.

Chamois Rose—Pkt., 10c; 1/4 oz., 60c.

Snowball—Pure white. Pkt., 15c; 1/4 oz., 75c.

Isabellina—Yellow. Pkt., 15c; 1/4 oz., 75c.

Sky blue with White Eye—Pkt., 15c; 1/4 oz., 75c.

Salmon—Pkt., 15c; 1/4 oz., 75c.

Nana Compata, Mixed, all colors—Pkt., 10c; 1/4 oz., 50c.

Portulaca

(Rose Moss) 6 Inches

This plant will grow and bloom profusely in dry, hot situation, where almost any other plant will soon die. Easily transplanted.

Large Flowering Single—White, yellow, pink, striped, scarlet, mixed. Each of the above, pkt., 10c; 1/4 oz., 40c.

Best Large Flowering Double—White, yellow, pink and scarlet. Each of the above, pkt., 10c; 1/4 oz., 75c.

Best Double Mixture—1/4 oz., 50c; pkt., 10c.
PETUNIAS

For freedom of bloom and length of flowering season, the petunia is unsurpassed as a bedding or window box plant. The many improvements recently made in its color range and form of flower have raised it to the front rank. The seed are very small and germinate slowly. Sow them indoors if possible, quite early, and he patient in awaiting the appearance of the seedlings. The Balcony type, of trailing habit, are excellent for porch and window boxes.

The single Bedding kinds can be sown out of doors in May. Our contract grower is a specialist celebrated for his magnificent strains of both the large flowering single and double varieties, which are being improved each year by careful selection and hybridization.

Large-flowering Single Sorts

**P.-W.'s Superb Large-flowering Fringed**—This seed is from the finest flowers of very large size and beautiful shape; deep-throated and of varied and brilliant colors, and beautifully fringed. Pkt., 200 seeds, 35c.

**Purple Prince**—A large flowering, rich velvety, purple-violet variety. 3 pkts., $1.00; pkt., 35c.

**Giants of California**—Flowers very large, in great variety of colors and markings, with deep yellow throats. 200 seeds, pkt., 25c.

**P.-W.'s Fluffy Ruffled Giants**—Flowers of extraordinary size and substance, and distinguished from the large flowering fringed section by the deep fluting, giving it the appearance as if artistically ruffled, and in addition to the ruffling, a very fine fringed edging, making a very hand some flower. Pkt. of 250 seeds, 50c.

Large-flowering Double Sorts

In growing Double Petunias from seed the weaker seedlings should be carefully saved, as these usually produce the better double flowers.

**P.-W.'s Superb Double-fringed**—Saved from an unrivalled collection that will produce a large percentage of double flowers of the largest fringed varieties in bright colors. Pkt., 200 seeds, 50c.

**Double Large-flowering (European Mixed)**—Beautiful varieties in mixture. This is grown for us by a European specialist. Pkt., 200 seeds, 35c.

**GARDEN GUIDE**

A complete handbook for the amateur gardener 384 pages and over 275 teaching illustrations with beautiful cover in four colors.

The gem of gardening literature. Over 35,000 copies sold throughout the United States and Canada. Garden Guide has wonderful chapters devoted to the Vegetable, Flower and Fruit Gardens, with practical layouts and planting plans. The flowers every step from spacing the ground to preserving the harvest.

Price, paper cover, postpaid, $1.10; cloth cover, postpaid, $1.65.

### P.-W.'s Fluffy Ruffled Giants

**Single Bedding Petunias**

All of the following are wonderfully effective in beds, borders, window boxes, etc.

**General Dodds**—Rich crimson garnet. 1/4 oz., 50c; pkt., 10c.

**Snowball**—Pure satiny-white. 1/4 oz., 50c; pkt., 10c.

**Violet Queen**—Rich velvety violet blue. 1/4 oz., 50c; pkt., 10c.

**Howard's Star**—Rosy-crimson with a clearly defined five-pointed star of blush-white. 1/4 oz., 50c; pkt., 10c.

**Rose of Heaven**—A very effective rich and brilliant rose-colored variety. 1/4 oz., 50c; pkt., 10c.

**Rosy Morn**—Soft rose-pink with white throat; very dainty. 1/4 oz., 50c; pkt., 10c.

**Collection of a pkt.** each of above 6 Bedding Petunias, 45c.

**Collection of 1/2 oz.,** each of above 6 Bedding Petunias, $2.50.

**Striped and Blotched**—A good strain of the small-flowering type; beautifully striped and blotted flowers; fine for massing; 1/4 oz. 50c; pkt., 10c.

**P.-W.'s Fine Mixed Bedding**—Good bright colors. 1/4 oz., 40c; pkt., 10c.

**Balcony Petunias**

A splendid large and free flowering type either for window boxes, vases, hanging baskets, etc., the flowers average 3 inches across and make a very effective display over a long season.

**Balcony Blue**—Velvety indigo blue. 1/32 oz., 60c; pkt., 20c.

**Balcony Rose**—Brilliant rose-pink; very effective. 1/32 oz., 40c; pkt., 20c.

**Balcony White**—The pure white form. 1/32 oz., 40c; pkt., 20c.

**Balcony Crimson**—Rich velvety crimson. 1/32 oz., 40c; pkt., 20c.

A packet each of the above 4 Balcony Petunias for 60c.

**Special Discount**

Offer on "Garden Guide" advertised elsewhere on this page. This most valuable book will be sent you at one-half price if your order on other items from this catalog exceeds $6.00.
POPPIES

Poppies are noted for their satiny flowers of silk-like texture, in many brilliant color combinations. The foliage is delicate and the blossoms are airyly poised on slender stems. If the flowers are gathered early in the morning when the dew is on them, they will retain fresh in water all day. Plant the seed in succession two weeks apart for a continuous bloom all summer. Mix seed with sand before sowing so as to distribute the seed thinly and evenly.

Single Annual Poppies

Admiral—Glistening white, with a broad margin of brilliant scarlet. Pkt., 10c; ¼ oz., 20c.
Bride—Very large pure white, perfectly formed flowers. Pkt., 10c; ¼ oz., 20c.
Danebrog or Danish Flag—Brilliant scarlet flowers, with a silvery spot on each petal, forming a white cross. Pkt., 10c; ¼ oz., 20c.
Flanders Poppy—Vivid scarlet-red. This flower has in the minds of men been associated for over two hundred years with the battlefields of Flanders. Was the first official flower of the American Legion. Pkt., 10c; ¼ oz., 20c.
Hansa—The flowers have a pure white ground color, passing towards the finely slitted edge to a deep crimson. Pkt., 10c; ¼ oz., 20c.
King Edward—Flowers deep scarlet, shaded crimson, with a large black blotch at the base of each petal. Pkt., 10c; ¼ oz., 20c.
Persian (Lavatagum or Firedragon)—Dark scarlet, black spots. Pkt., 10c; ¼ oz., 20c.
Tulip (Glaucemum)—Large tulip-shaped flowers of dazzling scarlet; not unlike a Scarlet von Thol Tulip. Pkt., 10c; ¼ oz., 30c.
Zaluzianum—Rich vermilion flowers with shining black spot on each petal. Pkt., 5c; ¼ oz., 20c.

Shirley Poppies

Silk or Ghost; have beautiful satiny flowers of various colors, all with white centers, which makes the plant very attractive. Foliage is hairy and finely cut.
Blue Shirley—Various shades of blue. Pkt., 10c; ¼ oz., 25c.
Rose Shirley—Shades of rose and pink. Pkt., 10c; ¼ oz., 25c.
Shirley Mixed—Beautiful shades in delicate shades of rose, apricot, salmon-pink, and blush to glowing crimson, with a sprinkling of blues. Pkt., 10c; oz., 30c.

Miss Sherwood—Flowers shining, satiny white, the half of the corolla being chamois rose. Pkt., 10c; ¼ oz., 20c.
Eldorado (Fini Mixed)—The flowers are large, single, semi-double and double, and contain magnificient shades of soft salmon, orange, orange scarlet, pink, rose and white, without any dark markings whatever. The substance of the petals in some of the lighter shades is as delicate as China silk. Pkt., 10c; ¼ oz., 30c.
Eldorado Salmon Shades—2 feet. The introducer made a selection of these most popular shades and will especially appeal to those admiring pastel shades in flowers. Pkt., 10c; ¼ oz., 30c.
Mixture Single Poppies—This mixture includes all the above choice Poppies and many other kinds not listed. Pkt., 10¢; oz., 25¢.

Double Carnation Poppy

American Flag—Flowers very large, snow white, scarlet bordered.
Fairy Blush—The flowers have the effect of large feathery balls, overcast with a rosy shade.
Carnation Flowered—Splendid double-fringed flowers; mixed colors. Pkt., 5c; oz., 25c.
Giant Double—Pure white, Pale Yellow, Pink, Cardinal Red, and Lilac. Any of above varieties except where noted. Pkt., 10c; oz., 30c.

Salvia Splendens

(Scarlet Sage)
The Salvia Splendens is a standard bedding plant that keeps the garden bright with color until late in autumn. This plant lends itself to many uses; it makes a good pot plant does well in window boxes, and is useful for cutting. Its best use, however, is as a hedge or border plant, for brilliant color effect.
America, or Globe of Fire—This is the freest and most continuous bloomer: also the most associated in habit of growth, which makes it particularly valuable, for bedding or planting in lines. Pkt., 25c; 1/16 oz., 75c.
Splendens (Scarlet Sage)—Beautiful bright scarlet; 3 feet. Pkt., 10c; ¼ oz., 15c.

Single Shirley Poppy

Rainbow Corn (Zea Japonica Variegata)
Ornamental foliage plant, highly effective and very interesting; grows about 5 feet high, quite bushy. Variegated leaves striped with bright green, silvery white, rosy purple and sulphur yellow. Pkt., 10c; oz., 25c.

Rhodanthe (Everlasting)—1 Foot
A charming annual; succeeds in a light rich soil and a warm sheltered situation; valuable for pot culture; flowers everlasting; mixed colors. Pkt., 10c; ¼ oz., 50c.

Romneya

Coulteri (California Tree Poppy)—5 feet. Flowers all summer. Beautiful snowy white fragrant flowers. Pkt., 15c; ¼ oz., 75c.

Ricinus

(Castor Bean)
Stately, strong growing plants, with very ornamental foliage, well adapted as center plants of groups of Cannas, Dahlias, etc.

Camphodendron—6 to 8 feet. Large palm-like leaves of darkest maroon; stalk nearly black. Pkt., 10c; oz., 25c.
Panormitanus—8 to 10 feet. Huge leaves of a peculiar old bronze shade; stems blue powdered. Pkt., 10c; oz., 25c.

Red Spire—A new and very effective variety with bronze green foliage and brilliant rose crimson seed spikes. Pkt., 10c; oz., 40c.
Zanzibariensis Mixed—10 to 12 feet. The ornamental leaves, beautifully bronzed, are 2½ to 4 feet across. Each plant makes a perfect pyramid of foliage. Pkt., 10c; oz., 25c.
Mixed—Many sorts. Pkt., 5c; oz., 25c.

Rudbeckia

(Cone Flower)
Bicolor Superba—2 feet. Annual. Produces an abundance of bright yellow flowers with brown central disc, fine for cutting. Pkt., 10c; ¼ oz., 75c.
Salpiglossis

Salpiglossis
2½ Feet

Undoubtedly one of the most attractive annuals and should be in every garden. Each flower is veined with a glint of gold. The Salpiglossis is deservedly known as the Orchid of Hardy Annuals.

Emperor—Bright crimson, Faust black, pink, velvety violet, golden yellow, purple and gold, scarlet and gold, rose and gold. Each of the above, per pkt., 10c; ¼ oz., 50c.

Emperor Mixed—Large improved strain, complete range of colors. Pkt., 10c; ¼ oz., 40c.

Scabiosa

(Mourning Bride) 2½ Feet

Commonly known as the Pincushion Plant. The flower stems are long and the blossoms keep well in water. The soft shades predominate. When given plenty of room and the seed vessels are kept regularly picked off, it will last through the whole summer.

Large Flowering Double
Snowball, golden yellow, flesh, flory scarlet, azure fairy, cherry red, black prince, rose.

Each of the above, per pkt., 10c; ¼ oz., 25c.
Mixed—The above and others. Pkt., 10c; ¼ oz., 25c.

Scarlet Runner Beans

Scarlet Runners—A great favorite in England and Europe, not only as an ornamental climber, but for the delicious edible beans which succeed the spray of bright scarlet pea-shaped blossoms. Lb., 55c; pkt., 10c.

Schizanthus

This is one of the daintiest of annuals. The seed germinates readily and in a few weeks the plant is a mass of small but bright flowers in a bewildering range of colors, all biotched and marked in contrasting shades.

Grandiflorus, Garaway’s Hybrids—A grand strain bearing a profusion of large flowers, all with handsome markings on a white, buff, brilliant rose, rich blue or purple ground. Pkt., 25c; ½ oz., 50c.

Wisetonensis—1½ feet. Profusion of flowers varying from almost white with yellow eye to a brilliant rose with bronze brown center. Pkt., 15c; ¼ oz., 50c.

Mixed, all colors—¼ oz., 25c; pkt., 10c.

Silene

1½ Feet

Armenia Mixed (Catchfly)—A very showy early flowering hardy annual, bearing in quantity, heads of beautiful white, pink and red flowers. Pkt., 10c; ¼ oz., 20.

Stocks

(Large Flowering)

The Stocks represent all the desirable qualities of a flower. The plants have good habit, fine, dull or glossy leaves. The flowers appear on long, stiff stalks like small rosettes, are exceedingly fragrant and range through a most complete scale of all the soft and distinct shades.

10 Weeks—1 Foot
White, canary yellow, flesh, rose pink, crimson, light blue, mauve (water blue), dark blue, mixed.

Each of the above, pkt., 10c; any 3 pkts. for 25c; ½ oz., 50c.

Giant Perfection “Cut and Come Again”—1½ Feet
Useful for outdoor bedding as well as for pots or cut-flower. They throw out numerous side branches, all bearing very double, fragrant flowers.

White, canary yellow, pink, old rose improved, scarlet, light blue, dark blue, mixed.

Each of above, pkt., 10c; ¼ oz., 65c.
MARVELOUS SWEET PEAS

Sweet Peas are of easy culture and there should be no failures if ordinary care is taken. The absolute essentials are good seed, rich soil deeply dug, early sowing, early staking and frequent stimulation to insure continuous growth and good fertilization to keep the soil loose and friable. Sow the seed six inches deep, in the bottom of which sow the seed and cover with about one inch of soil. When planted too close they do not obtain full development. They should be staked up either with branches or stout stakes on which wire netting has been fastened; these should be about four or five feet high. Sweet Peas should be watered thoroughly and frequently and flowers cut often to prevent running to seed which will stop them from continuing in bloom. One oz. will plant 25 feet of row. To inoculate the seed gives added vigor and health. See page 8.

EARLY FLOWERING SPENCERS

This new type is in great demand by commercial florists for forcing under glass and are just as valuable for outdoor culture, coming into flower five to six weeks earlier than the regular orchid-flowered type. If flowers are kept picked will continue to bloom over a period of nearly four months.

Early All White—Pure white.
Meadow Lark—Primrose yellow.
Early Fair Maid—Blush-pink.
Morning Star—Rich, rosy salmon.
Early Harmony — The finest clear lavender.
Early True Blue—Rich mid-blue.
Early Zoelean's Rose—Rich rose pink.

Price—Any of the above, pkt., 10c; oz., 60c; ½ lb., $1.25.
Collection of a packet each of the above choice varieties, 50c.
Collection of one ounce each of the above 6 choice varieties, $3.00.

Grandiflora SWEET PEAS MIXED

This mixture contains nothing but the finest grandiflora varieties and is offered at the greatest possible discount so as to produce the best color effect. Pkt., 5c; oz., 15c; ½ lb., 40c; lb., $1.25.

Orchid-flowered SWEET PEAS

These form a line of emerald-green foliage a little over a foot wide and 4 inches high, and from June until late summer are literally a sheet of bloom; the mixture contains all the colors.
Pkt., 10c; oz., 20c; ½ lb., 60c; lb., $2.

P.-W.'s GIANT SPENCER MIXED

This represents the highest development in Sweet Peas to date. This mixture has been made up out of named sorts only, insuring a well balanced range of colors, it would be impossible to get anything of higher quality at any price.
Pkt., 10c; oz., 25c; ½ lb., 60c; lb., $2.00.

P.-W.'s Giant Spencer or Orchard-Flowered SWEET PEAS

Of the hundreds of Orchid-Flowered or Spencer Sweet Peas introduced in the last few years, we offer this season what we consider the very choicest and most distinct varieties, each one of which is a leader in its respective color, and sure to give entire satisfaction.

Austin Frederick Improved — Large rosy lavender, the best in this color.


*Charming — A most brilliant rosy orange cerise, large flower.

*Colne Valley — Lavender blue, very large.

Commander Godsal — Very rich deep rose, very large.

Constance Hinton — Enormous size, the best white for outdoor use.

*Doubled Cream — The finest primrose-yellow.

*Frida Pearson — The best large bluish lavender.

*Florence Nightingale — A large and pure bluish lavender.

Golden Glory — A wonderful glowing orange self, flowers large.

Hawmark Salmon Pink — A most beautiful deep salmon pink; leading variety in this color.

Hercules — Larger than Countess Spencer which it has now superseded, lively rose-pink.

Illuminator — Bright salmon, cerise sparkling with orange.

King Edward — Bright crimson-scarlet of largest size.

King Mauve — A distinct rich deep mauve.

King White — A fine white-seeded pure white.

Lady Evelyn Eye — A most delicately colored large pale pink lightly flushed with salmon.

Margaret Alice — The best giant rich pink.

Old Rose — A lovely old rose color.

R. F. Felton — Exquisite large soft lavender-blue with slight suffusion of rose.

Robert Sydenham — Glowing orange, splendid.

Royal Purple — Rich royal purple.

Royal Salute — The sensational fiery-scarlet cerise, preferable to "Flery Cross," same color.

*Royal Scot — A most brilliant scarlet.

Splendour — Rich reddish maroon, very pleasing.

The Cardinal — Intense poppy-scarlet; very large and wavy.

Wedgewood — Bright silvery blue.

*Margaret Alice — The best giant rich pink.
Verbena

Verbena is one of the most popular garden annuals and lends itself willingly to many uses. The clusters of showy and often fragrant flowers are borne in constant succession from June until frost.

Hybrida

Defiance—An intense scarlet. Pkt., 10c; 4 oz., 50c. Dark Blue with White Eye—Pkt., 10c; 4 oz., 50c.

Lutea—Yellow. Pkt., 10c; 4 oz., 60c.

Striped—Mostly light colors with red and blue stripes. Pkt., 10c; 4 oz., 50c.

White—Dense heads of finely shaped white flowers. Pkt., 10c; 4 oz., 50c.

Mayflower—Various shades of pink. Pkt., 10c; 4 oz., $1.00.

Firebird—Intense red. Pkt., 10c; 4 oz., 70c.

Purple Shades—Dark purple. Pkt., 10c; 4 oz., 50c.

Mammoth Mixed—Producing in handsome umbels flowers of large size in beautiful shades of white, rose, scarlet, blue, purple. Pkt., 10c; 4 oz., 40c.

Hybrida Gigantea—A wonderful mixture of large flowering varieties. The flowers are, as the name indicates, gigantic, and with white eye, the reds particularly attractive. Pkt., 15c; 1/4 oz., 50c.

Eriolides (Mass Verbena)—6 inches. Produces a mass of moss-like foliage, spreading over the ground like a carpet, above which are borne heads of purplish-blue and white blossoms; flowers in June and continues until frost. For beds, baskets or rockeries it is highly desirable. Pkt., 10c 1/4 oz., 80c.

Venusa (Hardy Garden Verbena)—Used for hedging purposes; thrifty grower about 1 foot high, and covered from early summer until late fall with its bright purplish-heliotrope flowers. Pkt., 10c; 4 oz., 70c.

Citrodora (Lemon Scented Verbena)—An old favorite with fragrant evergreen leaves. It is a low-growing tender plant and may be grown in the garden in summer and in pots in winter, and the leaves dried and laid among linens. Pkt., 10c; 1/4 oz., 55c.

Zinnias

The most gorgeous annuals with a wonderful range of color. Beautiful old rose, dainty cream, striking red and brilliant yellow flowers of velvety texture, extremely double with long stems and good keeping qualities, make this old-fashioned flower a joy in the garden. The Colossoal produce such enormous blooms they appear as greenhouses CASPHANUMS that have mistaken their time and place of flowering. If you plant but one annual, plant this. The plants may be taken up when in full bloom and transplanted without any visible effect.

P.-W.s Giant Double Colossal Zinnias

3 feet

The flowers are of enormous size, thickly set with velvety petals. The plants are healthy, vigorous, branching freely, and make excellent material for grouping or cutting.

White, Cream, Buttercup (Deep Primrose), Apricot Yellow, Flesh Color, Salmon Shades, Shrimp Pink, Pink Shades, Golden Yellow, Sulphur Yellow, Orange, Scarlet Violet, Purple.

Each of the above, pkt., any 3 for 25c; 1/4 oz., 35c.

P.-W.s Colossal Zinnias, Mixed—The flowers are gigantic in size and deep and velvety in appearance, exhibiting all the new and interesting colors. Pkt. 10c; 1/4 oz. 25c.

Wallflower

Well-known delicately fragrant half hardy perennials, blooming early in the spring, with spikes of beautiful flowers. In the north they should be protected in a cold frame in the winter and planted out in April.


Double-flowering Finest Mixed—Pkt., 15c; 1/4 oz., 40c.

Wild Cucumber (Echinocystis Lobata)

Thirty feet. This is the quickest growing climber on our list. Grows wild self-sown in many parts of the west. Should be sown late in the fall or very early in the spring. It is thickly dotted over with pretty, white fragrant flowers, followed by an abundance of ornamental and prickly seed pods. It will quickly cover an old tree or an unsightly building. Pkt., 5c; 1/4 oz., 25c; oz., 30c; 1/2 lb., 90c.

Annual Flower Seeds

Wild Garden Collection

This is a surprise collection, containing practically every annual in existence. Large borders, along carriage drives and woodland walks shrubbery borders, and the like, may be pleasingly brightened as a result of freely sowing mixed flower seeds. The expense involved is very nominal in comparison with the wealth of bloom obtained. Such plantings will be a continuous source of joyous surprise to you as, among the many growing annuals, you recognize old friends or new ones. And at blooming time, some of the cheery flowers may be cut and transferred indoors with out noticeable lessening the charm of the outdoor plantings. Be careful not to sow the seeds too close together, as suitable space for plant development will contribute to the effectiveness of your planting. Oz., 25c; 1/4 lb., 75c lb., $2.25.
**Double Dahlia Flowered Zinnias**

The plants of this new race are very sturdy and produce many flowers with stout stems. In formation the broad petals are closely imbricated, sometimes seeming almost to be piled one upon the other. The flowers often measure 4 inches in depth and 6 to 8 inches in diameter. In general appearance the flowers compare with the Show Dahlias.

**Canary Bird**—A delicate shade of primrose—very large and holds its color well until out of bloom.

**Buttercup**—An immense deep creamy yellow. A very desirable flower, which should be included in every collection.

**Crimson Monarch**—Rich crimson. By far the largest and best of red shades. Flowers often eight inches in diameter.

**Dream**—A fine, deep lavender, turning to purple, a new desirable shade in Zinnias.

**Exquisite**—By far the most pleasing of our collection. Truly Dahlia nerved as regards form and size. Color light rose with center a deep rose.

**Golden State**—A very rich orange yellow in the bud, turning to an attractive orange when in full bloom.

**Old Rose**—This is adequately described by its name, as it is of the real Old Rose shade.

**Oriole**—An immense orange and gold bicolor, changing slightly as it ages.

**Polar Bear**—A very large pure white, the best white yet seen in Zinnias. True Dahlia form.

**Scarlet Flame**—A large, beautiful, bright scarlet, with a delightful blending of orange throughout the petal.

Each of above, pkt., 15¢; any 4 pkts., 50¢; 1/16 oz., 30¢.

**Dahlia Flowered Mixed**—All the above and others. Pkt., 15¢; 4 pkts., 50¢; 1/4 oz., 30¢.

**Glant Picotee**

A remarkable new and distinct class with beautiful double flowers in orange, flesh, lemon, pink and cerise, each petal being distinctly tipped with various shades of dark, resembling the Picotee Carnations.

**Glant Picotee Mixed**—Pkt., 15¢; 1/4 oz., 60¢.

**Zinnia California Giants (Double Flowered)**

In presenting the above type we offer a rare collection of striking and desirable colors. They are larger than Colossal and a cross between them and the Dahlia Flowered types.

**Lemon Queen**—A most pleasing color. The petals are light canary on the upper and cerise on the lower side, the two shades blending as the flower develops. It is the only Zinnia with fragrance.

**Orange King**—Similar in color to the Calendula of the same name—a glowing orange.

**Purity**—A clean pure white.

**Rose Queen**—Bright rose with a deep rose red center and gradually develops into a warm deep rose.

Each of the above, pkt., 15¢; 1/4 oz., 60¢.

One pkt. each of above four varieties, 50¢.

**Giant Double Quilled Achievement**

The petal is partially tubular or quilled giving the flower somewhat the appearance of a cactus Dahlia and displaying a rich variety of colors mostly of the warmer shades, such as, salmon, old rose, deep rose, lilac, bronze and dark red tones. On the reverse side the petals are light or dark lilac, making a wonderful combination of colors. The plants are of strong, robust growth and produce an abundance of very large, double flowers, 6 inches in diameter. Pkt., 15¢; 1/4 oz., 60¢.

**Zinnia Lilliput Double**

The plants form handsome little bushes and are fleshy, short-stemmed, very double flowers hardly exceeding a daisy flower in size. They are very pretty plants; bloom all summer until late in the fall. We furnish them in scarlet, white, golden orange and mixed colors. Pkt., 10¢; 1/4 oz., 30¢.

**Red Riding Hood**—1 ft. Of compact form and covered the entire season with little button-like, intense scarlet flowers not over an inch across; as a border plant it is highly effective. Pkt., 10¢; 1/4 oz., 30¢.
P.-W.’s LAWN SEEDS

The lawn is the most important factor in the development of the home grounds. It furnishes the setting for the house and puts the finishing touch on an attractive home. Proper grass seed mixtures cannot be selected and combined haphazardly. It takes years of experimentation to find the best mixture for each locality. Through years of experimentation we have developed Lawn Mixture which will meet the varying conditions of soil, situation and climate and produce a beautiful lawn throughout the entire season.

**How to Make a Lawn**
The ground should be well tilled and thoroughly raked, and then the seeds are sown at the rate of one pound to 150 to 200 square feet. It is best to sow the seeds in early spring or midsummer. The seeds are sown at a depth of about 1/8 inch. The seeds are sown in rows, and the rows are kept well watered until the seedlings are well established. After the seedlings have been watered, the top soil is raked over the surface to cover the seedlings and to prevent them from being washed away by wind or rain.

**P.-W.’s LAWN TERRACE MIXTURE**
This produces a uniformly thick turf of fine green, closely interwoven, velvety surface. Price: 1 lb., 10 lbs., 25 lbs.:

**Shady Nook Lawn Mixture**—Prepared especially for grass in shady places. Price: 1 lb., 10 lbs., 25 lbs.:

**Red Top Grass**
Fancy reeanced solid seed; in popularity for lawn use it is in second place for Kentucky Blue Grass. Price: 1 lb., 10 lbs., 25 lbs.:

**Kentucky Blue Grass**
The mainstay for lawns making our stock. Extra fancy reeanced heavy seed. The purest and cleanest obtainable. Price: 1 lb., 10 lbs., 25 lbs.:

**Red or Creeping Fescue (Festuca rubra)**—Because of its good creeping root system this makes splendid turf for putting greens. Price: 1 lb., 10 lbs., 25 lbs.:

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GRASS SEEDS

Our seeds are critically grown, of highest germination and purity. Prices fluctuate. Write for prices on quantities.

Bromus Inermis (Hungarian Brome Grass)—Remarkable for resistant and ready growth, not injured by frost. Sow 20 to 30 lbs. per acre. Postpaid. Not prepaid, 10 lbs., $2.25.

Orchard Grass—Furnishes pastures three weeks before any other and, after close grazing, a ten-day interval is sufficient for another growth. Makes a heavy soil, which thrives best on good light loams. Sow from 20 to 25 pounds per acre. Postpaid. 10 lbs., $1.75.

Kentucky Blue Grass—Remains green from early spring and snow flies in the fall. It will do well on almost any land. Sow from 20 to 25 pounds per acre. Postpaid. 10 lbs., $1.75.

English or Perennial Rye Grass—Produces an abundance of spring green from 10 to 15 pounds per acre. Sow 25c, postpaid. Not prepaid, 10 lbs., $2.50; 100 lbs., at market price.

Meadow Fescue, Randall or English Blue Grass—Excellent for hay and pastureage. Succeeds ever in poor soil, roots penetrate deep, stands extremely dry weather. Sow in spring or fall, even on alkali land, and it will do well. Postpaid. Not prepaid, 10 lbs., $2.50; 100 lbs., at market price.

Timothy—Of hay grasses Timothy leads all. Succeeds ever on poor soils and in mountainous districts, where there is an abundance of stone. Sow 15 pounds of the acre, or with clover, 10 pounds Timothy and 5 pounds clover. Postpaid. Not prepaid, 10 lbs., $2.00.

Tall Meadow Oat Grass—Out yields Timothy or white clover, and it is used for hay, grazing, becoming very popular. Sown alone, use 30 pounds per acre, or with Timothy, 20 pounds of Timothy and 10 pounds of oat grass. Postpaid. Not prepaid, 10 lbs., $2.00.

For Permanent Meadows and Pastures—Zawadka's Alkali Grass

A new forage plant that will make your alkaline lands productive. A Montana grower has this to say about this valuable new grass:

"I have been using this grass and has shown me that on alkali ground that will produce no other forage. It will grow a crop as large as timothy, on first-class alkali land, its feeding value and hardiness is repeatedly demonstrated to be greater than either Timothy or Rye. It will endure an unlimited amount of water in the spring, and has successfully resisted every drought that has occurred in these parts. I find that the seed will not germinate on blotting paper or in loam or earth free from alkali. If sown on land too heavy, or on alkali, it is not suited to its nature, it will not germinate until the following year. It seems to become rootbound in from seven to ten years, and it is impossible to get it from the ground in this condition. The water it stood in has been plowed out and dried and quite firmly packed.

"The seed is very fine and as it stools should be sown very fine. A permanent crop, I have counted as high as 450 stalks in one plant in the tumbler. The shortest of these stems was over ten feet tall. I think it will yield more than two pounds of seed to the acre should the soil be well drained.

"The seeding can be done any time from September 1 until spring. Broadcasting or broadcasting from snow and not after the snow is gone and land dried off and starts to crack. Use a "Cyclone" seeder, sowing two pounds per acre for meadows, or for hay.

"The seeds find their way into the ground without covering when covered the seeds are too deep and fail, they lay in the soil for years and come up after they come to the surface again. It is better to sow them thick, from nine to twelve inches apart. It does not matter whether it is spring or fall. Pound, 50c, postpaid. Not prepaid, 10 lbs., $4.00; 100 lbs., $20.


Sudan Grass—Sudan is a tall annual grass, reaching to a height of from seven to nine feet when planted in rows and allowed to mature for a seed crop; broadcasted and cut "in the bloom" for hay, about four feet. It dies each year. Should not be planted until all danger of frost is past.

Plant in rows, thirty-six inches apart using about two pounds of seed; where irrigated, plant in rows eighteen inches apart, using from 4 to 6 pounds per acre.


Johnson Grass—This variety is considered a pest in the South but it is highly valued by stock raisers in this climate on account of its extreme hardiness in un favorable situations. While it is tender and will not endure cold winters, yet it is a good drought resistant and is a valued hay grass. Belongs to the same family of sorghums as Sudan and resembles it very much in looks and habits of growth. We would recommend sowing it thickly as it does not grow so coarse as when thinly seeded. Sow at the rate of 30 pounds per acre. Price, 1 lb., 30c; postpaid; 10 lbs., $2.50, not postpaid.

For special prices on quantities.

P-W.'s Grass and Clover Seed Mixture

not completely head out and it is better to cut it before it bleaches. Cut it under these circumstances when it commences to bleach.

Price, pound, $2.00. White for quantity prices.

Our well-balanced mixture is made up of a number of native and acclimated grasses and clovers, intended in such a way as to best suit the climate and soil conditions found in our intermountain regions.

The main varieties of this combination are Kentucky Blue Grass, Perennial Rye Grass, Red Top, Orchard Grass, Meadow Fescue, Bromus, Tall Meadow Oat, Alfike, Red Clover, Lucerne, White Clover. Sow 25 pounds per acre. Yields an immense tonnage excellent for feeding. Price, 1 lb., 30c, postpaid; 10 lbs., $2.50, not postpaid.

Spring or fall. Pound, 50c, postpaid. Not prepaid, 10 lbs., $4.00; 100 lbs., $20, at market price.

"Putting-Green"—Salt Lake City

P-W.'s "Golf Links" GRASS MIXTURE

Prepared with the object of producing a thick turf that will stand the hard usage suffered by the average Fairway. For the Golf Course, Teeing Ground, Football and Polo Fields, and large Turf Lawns which has to withstand hard wear, this mixture will give perfect satisfaction. We prefer to prepare special mixture, postpaid. Not prepaid, 10 lbs., $3.50; 100 lbs., $35.

Price, pound, $2.00. White for special prices on quantities.

P-W.'s Special Putting-Green Mixture. 10 lbs., $3.00; 25 lbs., $14.00; 100 lbs., $50.

P-W.'s Special Golf-Course Mixture for Fair-Greens. 10 lbs., $6.00; 25 lbs., $14.00; 100 lbs., $50.
PEANUTS

Peanuts are a profitable crop where grown in the correct manner. They thrive best in a rich, sandy, loamy soil. Prepare the ground well, laying it off with a showed hoe in rows about 3 feet apart. Plant one in the bell 12 to 15 inches apart, or hull them and plant two kernels to the hill. Cultivate well, keeping the land as level as possible. When they mature, pull them up, turning the roots to the sun. In bright weather they will be cured in 24 hours. After picking, or threshing, the nuts, the vines make splendid hay; 35 to 40 pounds of unshelled peanuts will plant an acre.

Spanish—This variety is the best suited for growing in the North, being earlier. Postpaid, Lb., 40c, 2 lbs. for 55c. For larger quantities ask for Special Prices.

SPRING VETCH

Valuable for both sowing and as a cover crop. Sow 60 to 75 pounds per acre. White for prices.

Sand or Hairy Vetch—Hardy, fall variety, growing well that season and remaining green all winter. Prevents washing or leaching of soil and also gathers nitrogen, enriches soil. Valuable for hay or pasture. For hay use 1 bushel per acre, for cover crop 10 to 20 pounds per acre. Lb., 25c, postpaid. Not prepaid, 10 lbs., $2.00; 100 lbs., Market Price.

Sorghum

Early Amber—Furnishes a large yield of most nutritious forage, which can be fed either green or cured, and will yield two or three cuttings a year. Broadcast for forage sow 60 pounds per acre. In drills, sow 10 pounds per acre. Lb., 25c, postpaid. Not prepaid, 10 lbs., $1.25; 100 lbs. at market price.
P. W.'s Improved Learning

FIELD CORN FOR ENSILAGE

Of all the crops for ensilage, Corn is the most labor-saving and the most profitable. All live to this situation, we have made Ensilage Corn a specialty and we are now able to offer our customers the most profitable varieties adapted to the climate conditions of various sections of the West.

There is perhaps no crop of more value to the dairy farmer during the hot summer months when the pastures are dry, than a nice green field of fodder corn. Though the varieties of field corn list can be matured and are profitable.

P. W.'s Silo Corn No. 1—This variety is the heaviest yielding corn ever raised and introduced in the Mountain States. It is the earliest of the tall-growing large yellow Dent corn in cultivation. It is our own selection from improved learning and will mature its grain in 100 days, even under unfavorable conditions; and about 90 days when climate conditions are suitable. You will never regret giving it a trial this year. See below for price.

P. W.'s Silo Corn No. 2—This is a taller growing variety than P. W.'s Mountain States Silo No. 1, the height ranging from 8 to 12 feet, depending upon soil and other conditions. Consequently the fodder tonnage is less, but it makes up this loss to a large degree in the increased number of ears per acre. Nebraska is a home.

Reid's Yellow Dent—Best all around purpose Yellow Dent. Deep yellow, lighter cap; closely packed, slightly rough, grains dentated on top. Leaves and stalks make fine ensilage and fodder. Matures in 110 days.

P. W.'s Improved Learning—ripens in 90 to 100 days. Extra early; not a hardy flinty corn. The crops are not as abundant as Reid's. Varieties are Brahma, Liberty, Blue Barley, Noble, and Bowman. All the varieties of Silo Corn No. 2 are sold.

Any variety of above—Pound 20c, postpaid. Not prepaid, lb., 15c; 10 lbs. $1.00. Ask for Quantity Prices.

MISCELLANEOUS FARM SEEDS

BARLEY

Sow 60 to 80 pounds per acre; on dry land 40 to 50 pounds. Prices quoted are not postpaid. Blue or Feed Barley—10 lbs., 50c; 100 lbs., $1.00; prepaid, 50c. Club or Brewer's Barley—10 lb., 40c; 100 lbs., at market price. Naked, Bardeless or White Hulless—No heed, shell hull like wheat. 10 lbs., 60c; 100 lbs., market price.

Trell Barley—This variety is a recent introduction in this region. Fast becoming very popular. Yields much heavier, larger kernels than any of the other varieties. Price—10 lbs., 75c. Write for quantity price.

FEED CORN

From 29 to 30 days earlier than saffir Corn, makes good fodder; in some instances an excellent yield of grain without having received any rain from the day it was planted until it was harvested. Not postpaid, lb., 16c; 100 lbs., market price.

OATS

Swedish Select—Grain plump, white and very heavy, averages 40 pounds per bushel. 10 lbs., 50c, not prepaid. 100 lbs., at market price. Not postpaid.

KAFFIR CORN

is unsuessed for very alkaline land, on which no bitter fodder and grain crop grows. Lb., 16c, not postpaid; 10 lbs., $1.00 at market price.

Common—Very early; abundant. Lb., not postpaid. 10 lbs., at market price.

Liberty—A valuable fodder plant. Makes excellent hay. Sow 25 pounds to the acre. 10 lb., $1.50 not postpaid####; 100 lbs., at market price. Billion Dollar Grass or Japanese—Sow 40 pounds per acre. 10 lb., $1.50 not postpaid; 100 lbs., at market price.

Rape

Dwarf Essex—This is a short-stalked corn, making a good crop of fodder with the sweet corn, and single-row varieties. Sow 20 pounds to the acre. 10 lb., 50c at market price.

Dry field, late in the season, cut by wind, will produce a handsome crop of grain.
# Planting Chart for P.-W.'s Vegetable Seeds

<table>
<thead>
<tr>
<th>Variety</th>
<th>Seed for 100 ft Row</th>
<th>* Seed for 1 Acre</th>
<th>† Depth to Plant</th>
<th>$ Put Rows Apart</th>
<th>$ Leave Plants Apart in Row</th>
<th>‡ Time to Sow</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTICHOKE (Globe)</td>
<td>3 pkts, 1 oz.</td>
<td>12 oz.</td>
<td>1 in.</td>
<td>4 ft.</td>
<td>3 ft.</td>
<td>Early Spring</td>
</tr>
<tr>
<td>&quot; Plants &quot; (Jerusalem)</td>
<td>33 plants</td>
<td>3000 Plants</td>
<td>3 in.</td>
<td>12 in.</td>
<td>3 ft.</td>
<td>Spring</td>
</tr>
<tr>
<td>ASPARAGUS (Seed)</td>
<td>8 oz.</td>
<td>3 lbs.</td>
<td>2 in.</td>
<td>3 ft.</td>
<td>2 ft.</td>
<td>Spring</td>
</tr>
<tr>
<td>(Plants)</td>
<td>1 oz.</td>
<td>8 lbs.</td>
<td>1 in.</td>
<td>4 ft.</td>
<td>2-5 ft.</td>
<td>Early Spring</td>
</tr>
<tr>
<td>BEANS, Bush</td>
<td>1 lb.</td>
<td>60 lbs.</td>
<td>1-2 in.</td>
<td>18 in.</td>
<td>3-4 in.</td>
<td>Late Spring</td>
</tr>
<tr>
<td>&quot; Pole</td>
<td>8 oz.</td>
<td>40 lbs.</td>
<td>1-2 in.</td>
<td>18 in.</td>
<td>3-4 in.</td>
<td>Late Spring</td>
</tr>
<tr>
<td>BEETS, Table</td>
<td>1 oz.</td>
<td>5 lbs.</td>
<td>2 in.</td>
<td>12 in.</td>
<td>4 ft.</td>
<td>Late Spring</td>
</tr>
<tr>
<td>&quot; Mangels</td>
<td>2 oz.</td>
<td>8 lbs.</td>
<td>2 in.</td>
<td>18 in.</td>
<td>4 ft.</td>
<td>Spring (S)</td>
</tr>
<tr>
<td>BROCCOLI</td>
<td>1 pkt.</td>
<td>8 oz.</td>
<td>3 in.</td>
<td>24 in.</td>
<td>12-18 in.</td>
<td>Spring</td>
</tr>
<tr>
<td>BRUSSELS SPROUTS</td>
<td>2 pkts.</td>
<td>8 oz.</td>
<td>3 in.</td>
<td>24 in.</td>
<td>16-24 in.</td>
<td>Early Spring</td>
</tr>
<tr>
<td>CABBAGE</td>
<td>2 pkts.</td>
<td>8 oz.</td>
<td>3 in.</td>
<td>24 in.</td>
<td>3 in.</td>
<td>Early Spring</td>
</tr>
<tr>
<td>CARROT</td>
<td>1 oz.</td>
<td>4 lbs.</td>
<td>3/4 in.</td>
<td>12 in.</td>
<td>3 in.</td>
<td>Spring</td>
</tr>
<tr>
<td>CELERY</td>
<td>2 pkts.</td>
<td>4 oz.</td>
<td>1/2 in.</td>
<td>30 in.</td>
<td>24 in.</td>
<td>Early Spring</td>
</tr>
<tr>
<td>CHERVIL</td>
<td>1 pkt.</td>
<td>2 lbs.</td>
<td>1/2 in.</td>
<td>18 in.</td>
<td>3-4 in.</td>
<td>Early Spring</td>
</tr>
<tr>
<td>CHICKORY</td>
<td>1 pkt.</td>
<td>2 lbs.</td>
<td>1/2 in.</td>
<td>18 in.</td>
<td>2-4 in.</td>
<td>Early Spring</td>
</tr>
<tr>
<td>CORN SALAD</td>
<td>3 oz.</td>
<td>3 lbs.</td>
<td>1/2 in.</td>
<td>12 in.</td>
<td>3 in.</td>
<td>Spring</td>
</tr>
<tr>
<td>CORN</td>
<td>1 pkt.</td>
<td>10 lbs.</td>
<td>1-2 in.</td>
<td>12 in.</td>
<td>3 in.</td>
<td>Spring</td>
</tr>
<tr>
<td>CRESS</td>
<td>1/2 oz.</td>
<td>3 lbs.</td>
<td>3/4 in.</td>
<td>18 in.</td>
<td>3-4 in.</td>
<td>Spring</td>
</tr>
<tr>
<td>CUCUMBER</td>
<td>2 pkts.</td>
<td>3 lbs.</td>
<td>1 in.</td>
<td>12 in.</td>
<td>3 in.</td>
<td>Spring</td>
</tr>
<tr>
<td>EGG PLANT</td>
<td>1 pkt.</td>
<td>4 oz.</td>
<td>1/2 in.</td>
<td>30 in.</td>
<td>24 in.</td>
<td>Early Spring</td>
</tr>
<tr>
<td>ENDIVE</td>
<td>1/2 oz.</td>
<td>4 oz.</td>
<td>1/2 in.</td>
<td>18 in.</td>
<td>3-10 in.</td>
<td>Spring</td>
</tr>
<tr>
<td>HORSE RADISH</td>
<td>1 oz.</td>
<td>10,000</td>
<td>1/4 in.</td>
<td>24 in.</td>
<td>3 in.</td>
<td>Spring</td>
</tr>
<tr>
<td>KALE</td>
<td>1 pkt.</td>
<td>1 oz.</td>
<td>1/2 in.</td>
<td>18 in.</td>
<td>3-10 in.</td>
<td>Spring</td>
</tr>
<tr>
<td>KOHL RABI</td>
<td>1 pkt.</td>
<td>4 oz.</td>
<td>1/2 in.</td>
<td>18 in.</td>
<td>3 in.</td>
<td>Spring</td>
</tr>
<tr>
<td>LEEK</td>
<td>1/2 oz.</td>
<td>4 oz.</td>
<td>1/2 in.</td>
<td>18 in.</td>
<td>3 in.</td>
<td>Spring</td>
</tr>
<tr>
<td>LETTUCE</td>
<td>3 pkts.</td>
<td>4 oz.</td>
<td>1/2 in.</td>
<td>18 in.</td>
<td>3 in.</td>
<td>Spring</td>
</tr>
<tr>
<td>MELONS, Musk</td>
<td>3 pkts.</td>
<td>3 lbs.</td>
<td>1-2 in.</td>
<td>5 ft.</td>
<td>3 in.</td>
<td>Spring</td>
</tr>
<tr>
<td>UPSAL</td>
<td>1 oz.</td>
<td>1 lbs.</td>
<td>1 in.</td>
<td>3 in.</td>
<td>3 in.</td>
<td>Spring</td>
</tr>
<tr>
<td>MUSTARD</td>
<td>1 pkt.</td>
<td>2-3 lbs.</td>
<td>1/4 in.</td>
<td>12 in.</td>
<td>3 in.</td>
<td>Spring</td>
</tr>
<tr>
<td>OKRA</td>
<td>1 oz.</td>
<td>8 lbs.</td>
<td>1/2 in.</td>
<td>3 in.</td>
<td>3 in.</td>
<td>Spring</td>
</tr>
<tr>
<td>ONION</td>
<td>1 oz.</td>
<td>3 lbs.</td>
<td>1/2 in.</td>
<td>12 in.</td>
<td>3 in.</td>
<td>Spring</td>
</tr>
<tr>
<td>&quot; Sets</td>
<td>2 oz.</td>
<td>300 lbs.</td>
<td>1/2 in.</td>
<td>12 in.</td>
<td>3 in.</td>
<td>Spring</td>
</tr>
<tr>
<td>PARSLEY</td>
<td>1 pkt.</td>
<td>6 lbs.</td>
<td>1/2 in.</td>
<td>12 in.</td>
<td>3 in.</td>
<td>Spring</td>
</tr>
<tr>
<td>PARSNIP</td>
<td>2 pkts.</td>
<td>5 lbs.</td>
<td>1/2 in.</td>
<td>15 in.</td>
<td>3 in.</td>
<td>Spring</td>
</tr>
<tr>
<td>PEAS</td>
<td>2 lbs.</td>
<td>60-125 lbs</td>
<td>2-4</td>
<td>14 oz.</td>
<td>3 in.</td>
<td>Spring (S)</td>
</tr>
<tr>
<td>PEPPER</td>
<td>1 pkt.</td>
<td>8 oz.</td>
<td>1/2 in.</td>
<td>24 in.</td>
<td>3-10 in.</td>
<td>Spring</td>
</tr>
<tr>
<td>POTATO, Irish</td>
<td>10 lbs.</td>
<td>1,000 lbs</td>
<td>1/4 in.</td>
<td>24 in.</td>
<td>3 in.</td>
<td>Spring</td>
</tr>
<tr>
<td>Sweet</td>
<td>75 slips</td>
<td>5,689 pt.</td>
<td>3 in.</td>
<td>24 in.</td>
<td>3 in.</td>
<td>Spring</td>
</tr>
<tr>
<td>PUMPKIN</td>
<td>2 pkts.</td>
<td>3 or 4 lbs</td>
<td>1/2 in.</td>
<td>12 in.</td>
<td>3 in.</td>
<td>Spring</td>
</tr>
<tr>
<td>RADISH</td>
<td>2 oz.</td>
<td>10 lbs.</td>
<td>1/2 in.</td>
<td>12 in.</td>
<td>3 in.</td>
<td>Spring</td>
</tr>
<tr>
<td>RHUBARB</td>
<td>1/2 oz.</td>
<td>1 lb.</td>
<td>1/2 in.</td>
<td>12 in.</td>
<td>3 in.</td>
<td>Spring</td>
</tr>
<tr>
<td>SALSIFY</td>
<td>2 oz.</td>
<td>8 lbs.</td>
<td>1/2 in.</td>
<td>12 in.</td>
<td>3 in.</td>
<td>Spring</td>
</tr>
<tr>
<td>SPINACH</td>
<td>1 oz.</td>
<td>10 lbs.</td>
<td>1/2 in.</td>
<td>12 in.</td>
<td>3 in.</td>
<td>Spring</td>
</tr>
<tr>
<td>SQUASH</td>
<td>2 pkts.</td>
<td>2-3 lbs</td>
<td>1-2 in.</td>
<td>6 ft.</td>
<td>3 in.</td>
<td>Spring</td>
</tr>
<tr>
<td>TOMATO</td>
<td>1 pkt.</td>
<td>2 oz.</td>
<td>1/2 in.</td>
<td>4 in.</td>
<td>3 in.</td>
<td>Spring</td>
</tr>
<tr>
<td>TURNIP</td>
<td>3 pkts.</td>
<td>3 lbs.</td>
<td>1/2 in.</td>
<td>12 in.</td>
<td>3 in.</td>
<td>Spring</td>
</tr>
</tbody>
</table>

The terms used in this column are defined as follows:

- "Plant," placed in the column, is to mark those sorts which are usually sown in beds and later transplanted to the garden, and always transplanted to the field.

For last planting of Beans, Sweet Corn, Peas and Radishes, or even Tomatoes, take the earliest varieties.

Late sowings of Salsify are intended to remain undisturbed over winter.

The usual distances are here given and the planter must use his judgment for his particular case. Where garden cultivation is by wheel hoe and ample room is available, a greater distance is better employed, if the patch will be cultivated by horse, leave a greater distance between rows.

The depth at which to plant seed cannot be given more than approximately because it varies so much with the condition of the moisture in the soil and the time of year. All seeds must have air, moisture and heat to germinate.

"Early Spring," means as soon as buds in the trees begin to swell and the ground can be worked into garden condition.

"Spring" refers to those vegetables which are not so hardy as the above, and which are usually planted later because they do so much better planted later.

"Late Spring" is the time of year when the ground is well warmed and all frosts are passed.

"(H)" means plant in hothouse and transplant to open ground later.

"(W)" placed in this column means that those are sown for succession.
MAKE A HEALTH GARDEN

...from being an interesting and fascinating "hobby." The Vegetable garden is a vitally important factor to the health of the entire family.

In the recent discovery of the mysterious food elements called VITAMINES means more to a solution of the health problem than any other discovery of Modern Science.

Medical men now fully appreciate unless these vitamines are present it is possible to starve even though the body be well supplied with protein, fats and carbohydrates formerly considered all the elements of a complete diet.

With such facts in mind every home Gardener will want to provide his family with these necessary health giving elements. The following list will be of great assistance in this respect.

Vitamine A promotes growth and its absence causes sore eyes and blindness; and stunted growth in children.

Vitamine B, if lacking, brings on gastro-intestinal troubles, neuritis, anemia.

Beans, eaten green, contain fat soluble A, water soluble B, and water soluble C.

Beans, dried kidney, contain water soluble B.

Beans, dried navy, contain water soluble B.

BEET JUICE contains small amount of water soluble B and C.

BEET ROOT, raw, contains fat soluble A, and water soluble B and water soluble C.

CABBAGE, fresh cooked, contains fat soluble A, water soluble B and water soluble C.

CABBAGE, raw, contains fat soluble A, water soluble B and water soluble C.

CARROTS, raw, contain fat soluble A, water soluble B and water soluble C.

CAULIFLOWER, contains water soluble B.

CHARD (SWISS), contains fat soluble A and water soluble B.

CORN, yellow, contains fat soluble A, and water soluble B.

LETTUCE, contains fat soluble A, water soluble B and water soluble C.

ONIONS, cooked, contain water soluble C.

ONIONS, raw, contain water soluble B and C.

PARSNIPS, contain fat soluble A and water soluble B.

PEANUTS, contain fat soluble A and water soluble B.

POTATOES, cooked, contain water soluble B and C.

POTATOES SWEET, contain fat soluble A and water soluble B.

RUTABAGA, contains fat soluble B and C.

SPINACH, contains fat soluble A and water soluble B.

TOMATOES, contain fat soluble A, water soluble B and water soluble C.

TURNIPS, white, contain water soluble B.

TURNIPS, cooked, contain water soluble C.

PEAS, dried, contain water soluble B.

PEAS, green, contain fat soluble A and water soluble B and water soluble C.

POTATOES, raw, contain fat soluble A and water soluble C.

CAULIFLOWER, contains water soluble B.

CHARD (SWISS), contains fat soluble A and water soluble B.

CORN, yellow, contains fat soluble A, and water soluble B.

LETTUCE, contains fat soluble A, water soluble B and water soluble C.

ONIONS, cooked, contain water soluble C.

ONIONS, raw, contain water soluble B and C.

PARSNIPS, contain fat soluble A and water soluble B.

PEANUTS, contain fat soluble A and water soluble B.

POTATOES, cooked, contain water soluble B and C.

POTATOES SWEET, contain fat soluble A and water soluble B.

RUTABAGA, contains fat soluble B and C.

SPINACH, contains fat soluble A and water soluble B.

TOMATOES, contain fat soluble A, water soluble B and water soluble C.

TURNIPS, white, contain water soluble B.

TURNIPS, cooked, contain water soluble C.

PEAS, dried, contain water soluble B.

PEAS, green, contain fat soluble A and water soluble B and water soluble C.

POTATOES, raw, contain fat soluble A and water soluble C.

WHAT AND WHEN TO SOW FOR VEGETABLES

The dates supplied below are those applying to the Mountain States or places of similar climatic conditions, where outside growing season for hardy varieties begins in average years in March and continues until November.

...are under the false impression that seeds can be planted successfully only in April and May. The truth really is that the wide awake planter begins just as early as the ground can be worked in the Spring and sows succession crops throughout the Summer and Fall. The latter crops are very important as they supply fresh vegetables for Fall and Winter use.

February 1-15 (in house or hotbed): Cabbage, Cauliflower, Celery, Kohl-Rabi, Lettuce, Parsley, Radish.

February 15-25 (in house or hotbed): Cabbage, Cauliflower, Celery, Kohl-Rabi, Lettuce, Parsley, Radish.

March 1-15 (in house or hotbed): Cucumber, Egg plant, Muskmelon, Pepper, Tomato.


AVERAGE TIME REQUIRED FOR MAIN TYPES OF GARDEN SEED TO GERMINATE UNDER PROPER CONDITIONS

<table>
<thead>
<tr>
<th>Seed</th>
<th>Days to Germinate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bean</td>
<td>5 to 10 days</td>
</tr>
<tr>
<td>Beet</td>
<td>7 to 10 days</td>
</tr>
<tr>
<td>Carrot</td>
<td>12 to 18 days</td>
</tr>
<tr>
<td>Cauliflower</td>
<td>5 to 10 days</td>
</tr>
<tr>
<td>Celery</td>
<td>10 to 20 days</td>
</tr>
<tr>
<td>Corn</td>
<td>5 to 8 days</td>
</tr>
<tr>
<td>Cucumber</td>
<td>5 to 10 days</td>
</tr>
<tr>
<td>Endive</td>
<td>5 to 10 days</td>
</tr>
<tr>
<td>Lettuce</td>
<td>5 to 10 days</td>
</tr>
<tr>
<td>Onion</td>
<td>5 to 10 days</td>
</tr>
<tr>
<td>Pea</td>
<td>5 to 10 days</td>
</tr>
<tr>
<td>Parsnip</td>
<td>10 to 20 days</td>
</tr>
<tr>
<td>Pepper</td>
<td>9 to 14 days</td>
</tr>
<tr>
<td>Radish</td>
<td>10 to 14 days</td>
</tr>
<tr>
<td>Salsify</td>
<td>7 to 12 days</td>
</tr>
<tr>
<td>Tomato</td>
<td>6 to 12 days</td>
</tr>
<tr>
<td>Turnip</td>
<td>4 to 8 days</td>
</tr>
</tbody>
</table>
P.-W.'s HOME GARDEN COLLECTION

Contain seeds of only true and tried varieties, most carefully selected to give a continuous supply of vegetables, of exclusively high quality throughout the season. The quantities are proportioned to meet the requirements of such gardens as are indicated by the titles of the collections, and will be found convenient for patrons who do not care to wade through long lists, or who prefer our judgment as to kinds and quantities; it may be that there are one or more items in these collections that some customers will not care for, but even if such are not needed, the great saving in price will more than compensate. We, however, cannot allow any alterations, because these collections are put up in quantities all ready to ship, before the commencement of our busy season, thus enabling us to sell them at very much less than the articles would cost separately.

SMALL CITY GARDEN COLLECTION, PRICE 50 CENTS PREPAID
(Regular Price 90c)

<table>
<thead>
<tr>
<th>Item</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Beet</td>
<td>1 pkt.</td>
</tr>
<tr>
<td>Cabbage</td>
<td>1 pkt.</td>
</tr>
<tr>
<td>Cauliflower</td>
<td>1 pkt.</td>
</tr>
<tr>
<td>Carrot</td>
<td>1 pkt.</td>
</tr>
<tr>
<td>Cucumber</td>
<td>1 pkt.</td>
</tr>
<tr>
<td>Lettuce</td>
<td>1 pkt.</td>
</tr>
<tr>
<td>Peas</td>
<td>1 pkt.</td>
</tr>
<tr>
<td>Muskmelon</td>
<td>1 pkt.</td>
</tr>
<tr>
<td>Watermelon</td>
<td>1 pkt.</td>
</tr>
<tr>
<td>Onion</td>
<td>1 pkt.</td>
</tr>
<tr>
<td>Parsley</td>
<td>1 pkt.</td>
</tr>
<tr>
<td>Parsnip</td>
<td>1 pkt.</td>
</tr>
<tr>
<td>Radish, Long</td>
<td>1 pkt.</td>
</tr>
<tr>
<td>Radish Round</td>
<td>1 pkt.</td>
</tr>
<tr>
<td>Tomato</td>
<td>1 pkt.</td>
</tr>
<tr>
<td>Turnip</td>
<td>1 pkt.</td>
</tr>
</tbody>
</table>

MEDIUM GARDEN COLLECTION, PRICE $1.00 PREPAID
(Regular Price $1.60)

<table>
<thead>
<tr>
<th>Item</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Peas, Early</td>
<td>1 pkt.</td>
</tr>
<tr>
<td>Peas, Late</td>
<td>1 pkt.</td>
</tr>
<tr>
<td>Beans, String</td>
<td>1 pkt.</td>
</tr>
<tr>
<td>Beans, Wax</td>
<td>1 pkt.</td>
</tr>
<tr>
<td>Beet</td>
<td>1 pkt.</td>
</tr>
<tr>
<td>Cabbage</td>
<td>1 pkt.</td>
</tr>
<tr>
<td>Cauliflower</td>
<td>1 pkt.</td>
</tr>
<tr>
<td>Carrot</td>
<td>1 pkt.</td>
</tr>
<tr>
<td>Celery</td>
<td>1 pkt.</td>
</tr>
<tr>
<td>Sweet Corn</td>
<td>1 pkt.</td>
</tr>
<tr>
<td>Cucumber</td>
<td>1 pkt.</td>
</tr>
<tr>
<td>Cress</td>
<td>1 pkt.</td>
</tr>
<tr>
<td>Egg Plant</td>
<td>1 pkt.</td>
</tr>
<tr>
<td>Kohl Rabi</td>
<td>1 pkt.</td>
</tr>
<tr>
<td>Leek</td>
<td>1 pkt.</td>
</tr>
<tr>
<td>Lettuce</td>
<td>1 pkt.</td>
</tr>
<tr>
<td>Muskmelon</td>
<td>1 pkt.</td>
</tr>
<tr>
<td>Watermelon</td>
<td>1 pkt.</td>
</tr>
<tr>
<td>Onion</td>
<td>1 pkt.</td>
</tr>
<tr>
<td>Parsley</td>
<td>1 pkt.</td>
</tr>
<tr>
<td>Pepper</td>
<td>1 pkt.</td>
</tr>
<tr>
<td>Pumpkin</td>
<td>1 pkt.</td>
</tr>
<tr>
<td>Turnip</td>
<td>1 pkt.</td>
</tr>
<tr>
<td>Radish, Long</td>
<td>1 pkt.</td>
</tr>
<tr>
<td>Radish Round</td>
<td>1 pkt.</td>
</tr>
<tr>
<td>Tomato</td>
<td>1 pkt.</td>
</tr>
</tbody>
</table>

Insure Your Garden Against Blight and Insect Pests
Effective remedies against Blight, Aphis, Cut Worms, Slugs and other pests; also implements for application will be found on Pages 89-93. Ask for Free Spraying Guide.

By means of our Centerville Seed Trial Grounds we select only the best. You may rest assured when Better Seeds Are Sold WE'LL SELL THEM
## GARDEN SEEDS IN BULK

**Condensed Quantity Prices for Large Buyers and Market Gardeners**

The varieties most commonly used by Market Gardeners are listed below. Should prices be desired on others not found here, we shall be pleased to quote promptly upon request. See page 50 following for detailed description and complete list.

### PRICES ON THIS PAGE DO NOT INCLUDE DELIVERY CHARGES.  

**IF BY MAIL ADD POSTAGE.**

<table>
<thead>
<tr>
<th><strong>ASPARAGUS</strong></th>
<th>1 lb. 10 lbs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Washn Rust Resistant</td>
<td>$3.00 $18.00</td>
</tr>
<tr>
<td>Mary Washington</td>
<td>4.00 38.00</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>BEETS—For Table Use</strong></th>
<th>1 lb. 10 lbs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>P-W's Dark Leaved Globe</td>
<td>$1.25 $10.00</td>
</tr>
<tr>
<td>P-W's Blood Red</td>
<td>1.25 10.00</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>BEETS—For Stock Feeding</strong></th>
<th>1 lb. 10 lbs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scald Runner</td>
<td>$2.70 $25.00</td>
</tr>
<tr>
<td>Pn Lima</td>
<td>2.25 20.00</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>BEANS—Green Podded</strong></th>
<th>1 lb. 10 lbs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shell Mexican Pinto</td>
<td>$1.15 $13.50</td>
</tr>
<tr>
<td>Pink Eye</td>
<td>1.25 11.00</td>
</tr>
<tr>
<td>Broad Windsor</td>
<td>1.25 11.00</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>BRUSSELS SPROUTS</strong></th>
<th>1 lb. 10 lbs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Odense Market</td>
<td>$2.25 20.00</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>CARROTS—Table and Stock</strong></th>
<th>1 lb. 10 lbs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ex Curled or Pepper G</td>
<td>$1.00 $9.00</td>
</tr>
<tr>
<td>True Water</td>
<td>4.50 45.00</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>CABBAGE</strong> (Chinese)</th>
<th>Pe-Tsai</th>
<th>$2.25 $20.50</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th><strong>CABBAGE</strong></th>
<th>1 lb. 10 lbs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Copenhagen Market</td>
<td>$2.00 $17.50</td>
</tr>
<tr>
<td>Baby Head</td>
<td>1.25 13.00</td>
</tr>
<tr>
<td>Danish Round Head</td>
<td>2.00 17.00</td>
</tr>
<tr>
<td>Mammoth Red Rock</td>
<td>2.50 22.50</td>
</tr>
<tr>
<td>Marvin’s Saver</td>
<td>1.50 15.00</td>
</tr>
<tr>
<td>Golden Ball Head</td>
<td>2.00 18.00</td>
</tr>
<tr>
<td>Golden Ace</td>
<td>3.50 32.50</td>
</tr>
<tr>
<td>Charleston</td>
<td>2.75 25.00</td>
</tr>
<tr>
<td>Succession Sm Ballhead</td>
<td>2.25 20.00</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>CAULIFLOWER</strong></th>
<th>1/4 lb. 4 lbs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>All other varieties, 65.25 $6.50</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>CELERI</strong></th>
<th>1 lb. 12 lbs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wonderfol or Giln Plumes</td>
<td>$1.25 11.00</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>CORN—Sweet</strong></th>
<th>100 lbs. 100 lbs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Santam Evergreen</td>
<td>$1.60 $16.00</td>
</tr>
<tr>
<td>Early Nashoy</td>
<td>1.50 16.00</td>
</tr>
<tr>
<td>Country Gentleman</td>
<td>1.80 18.00</td>
</tr>
<tr>
<td>Davis Co. Excelsior</td>
<td>1.80 18.00</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>CUCUMBERS</strong></th>
<th>1 lb. 10 lbs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>All varieties, p. 68</td>
<td>$1.25 11.00</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th><strong>EGG PLANT</strong></th>
<th>1 lb. 10 lbs.</th>
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</thead>
<tbody>
<tr>
<td>All varieties, p. 66</td>
<td>$1.00 10.00</td>
</tr>
</tbody>
</table>

Five pounds and over at 10 lb. rate; 25 lbs. and over at 100 lb. rates. Prices on this page do not include delivery charges; if wanted by mail add postage.

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**PUMPKIN** | 1 lb. 10 lbs.  |
<table>
<thead>
<tr>
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<tbody>
<tr>
<td>King of Mammoth</td>
<td>$1.00 $9.00</td>
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**PEAS** | 100 lbs. 100 lbs.  |
<table>
<thead>
<tr>
<th></th>
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<tbody>
<tr>
<td>Early Alaska</td>
<td>$1.66 $16.00</td>
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</table>

**RADISHES** | 1 lb. 10 lbs.  |
<table>
<thead>
<tr>
<th></th>
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<tbody>
<tr>
<td>Long Black Spanish</td>
<td>$0.65 $5.50</td>
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</table>

**SALISFY** | 1 lb. 10 lbs.  |
<table>
<thead>
<tr>
<th></th>
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<tbody>
<tr>
<td>Mam. Sandwich Island</td>
<td>1.75 16.00</td>
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</tbody>
</table>

**SQUASH** | 1 lb. 10 lbs.  |
<table>
<thead>
<tr>
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<tbody>
<tr>
<td>Chicago Warted Hubbard</td>
<td>$1.25 $11.50</td>
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</tbody>
</table>

**TOMATOES** | 1 lb. 10 lbs.  |
<table>
<thead>
<tr>
<th></th>
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<tbody>
<tr>
<td>Sunnybrook—P-W’s</td>
<td>$4.00 $43.00</td>
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</tbody>
</table>

**TURNIPS** | 1 lb. 10 lbs.  |
<table>
<thead>
<tr>
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<tbody>
<tr>
<td>Southport Red Globe</td>
<td>6.50 65.00</td>
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</tbody>
</table>

**UPLAND PEAS** | 1 lb. 10 lbs.  |
<table>
<thead>
<tr>
<th></th>
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<tbody>
<tr>
<td>Chinese...—Winter</td>
<td>$0.65 $5.50</td>
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</tbody>
</table>

**RUTA BAGA** | 1 lb. 10 lbs.  |
<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>Imp. Purple Top</td>
<td>$0.65 $6.00</td>
</tr>
</tbody>
</table>

**ORDER EARLY**

In January and February, it is possible, before the Spring rush begins. March and April are our busy months and our full force of men is used day and night under top pressure. We allow you 5% discount for the privilege of filling your order before March 1.
P.-W.'s Dark Leaved Globe Beet

A Real Asset to the Beet Family

We believe this new variety to be without equal for either the market or home garden and will also become a favorite for canning. The tops are small and upright in habit of growth allowing close planting. The leaves are deep green, stems and veins of the darkest red. The roots are uniformly globular possessing a deep blood red smooth skin, flesh rich dark red zoned with a lighter shade, very sweet, crisp and tender. Its uniformity in shape, size, color and productiveness make it a strong asset to the Beet Family. You will make no mistake in giving it a place in your garden this year. Price—pkt., 5c; oz., 15c; ½ lb., 50c postpaid.

P.-W.'s Blood Red Beet

This variety comes to us from a European Specialist and our trials show that it has exceptional merit. It is practically the same season as Crosby Egyptian, globe-shaped, possessing a deep blood red skin, the flesh a blood-red, remarkable free from light colored zones so common in some other varieties. The color of the leaves, too, is very dark. This combined with uniform deep color of the beet makes it a very attractive market variety. Our market Gardener friends will find this a most valuable second-early beet for market use. It is equally desirable for the home table. Pkt., 5c; oz., 15c; ½ lb., 50c, postpaid.

P.-W.'s Early Laxton Superb Pea

This splendid novelty is a semi-wrinkled, extra early dwarf pea. It can be planted much earlier than the fully wrinkled sorts as it does not rot nearly so easily. It is without doubt one of the very best dwarf peas ever grown. We have found none so near perfection in a Market Gardener's type. It is the best-flavored and the largest podded dwarf growing sort. It is ready and about three days after the earliest smooth sorts, and bears an enormous crop of handsome, intensely dark green, fairly broad and pointed pods, 4 inches long, containing from 9 to 10 large, dark green peas of excellent quality. The vines are 16 to 18 inches high, sturdy, and resist heat well. Our tests show it requires about 60 days from planting for green peas for table use, and 88 days to ripe seed stage. Pkt., 10c; lb., 45c; 2 lbs., 75c, postpaid.

P.-W.'s Laxton Progress Pea

This remarkable new variety is a true wrinkled sort. Trials show last year that green peas were ready for use three to four days earlier than P.-W.'s Laxton Superb. Vines grow to an average height of 15 inches, heavy dark colored foliage. Pods are large, pointed, very dark green color averaging 1½ inches in length. Peas remain tender and sweet for a long time after being picked from the vines. It has dwarf habit of growth, extreme earliness, attractive deep green color combined with the fact that it is a true wrinkled, large podded sort will without question merit the greatest market garden type for early use. Pkt., 10c; lb., 45c; 2 lbs., 85c, postpaid.

See page 53 for quantity prices.
P.-W.'s Golden Acre Cabbage

A most profitable extra early market variety.
A sure money maker for the Market Gardener.
A trial order will convince you of its splendid merits.

P.-W.'s Golden Acre Cabbage is a new, early, round-headed Cabbage which closely resembles Copenhagen Market, in type. As its name implies, it is a money-taker. It is 8 to 10 days earlier than Copenhagen Market but is smaller and can be planted closer. Because of its earliness and fine quality it commands a higher price than any round-headed Cabbage. Pkt., 15c; ½ oz., 25c; oz., 40c; ½ lb., $1.25.

P.-W.'s Wonderful or Golden Plume Celery

(See Cut)

This new variety is rightly named "Wonderful." It is a decidedly a distinct type, ten to twelve days earlier than Golden Self-Blanching and very much superior in eating quality. Plants are very large in size, short, stout, stocky and full of heart. It blanches easily to a beautiful clear, creamy white color. Vigorous grower, disease resistant. Plants grown under favorable conditions average about four pounds. It is decidedly a worth-while sort and no Market or Home Gardener should fail giving it a trial. Price—Pkt., 15c; oz., $1.25; ½ lb., $4.00.

Mary Washington Asparagus

This is a new development from the Washington rust resistant variety, it comes into market earlier and has all the rust resistant qualities of the old type. The advantage of earliness is, of course, a very great one for all market growers. The shoots are large size, excellent quality, deep rich green color with a triple purple tint at the tips. Pkt. 10c; ½ oz., 25c; oz., 45c; ½ lb., $1.50;

P.-W.'s Wonderful Celery

By means of our Centerville Seed Trial Grounds we select only the BEST in both old and new.

See page 53 for Quantity Prices.

P.-W.'s Sunnybrook Tomato

This is a selection from Burpee's Sunnybrook Earlings which has been recognized as one of the earliest of the red tomatoes. Trial Ground tests show it to be very close to Avon in general appearance and earliness. All of the fruits on the entire crop are ripe about the same time and entire crop can be gathered within a period of two to three weeks. This is a decided advantage for the early Market Gardener as advantage can be taken of higher prices before the second earlies are on the market. Pkt., 10c; ½ oz., 25c; oz., 45c; ½ lb., $1.50.

The Klondike Watermelon

A very popular new melon from the southwest. The seeds are quite small, color brown mottled black, while the Flesh is a distinctive shade of deep red. The rind is dark green; the shape is long with an average weight of 25 pounds. While more a home garden than a market variety, it is adapted for shipping moderate distances. Though cylindrical in shape, the Klondike is seeded slightly toward the blossom end. Edible in 62 days. Size averages 16 x 10 inches. It is a better shipper than most of the thin rind melons and is proving a favorite with the Market Gardeners in the Salt Lake valley. Pkt., 10c; oz., 15c; ½ lb., $0.50, postpaid.
P-W's Sweet Spanish Onion Seed Field at Our Centerville
Stock Seed Farm and Trial Grounds

**P.-W.'s Peerless White Onion**

**Best For Bunching—Valuable For Winter Use—Finest All
Purpose Variety In the List.**

In our estimation this splendid new variety is the best
bunching onion that has come under our observation. We
especially recommend it to our Market Gardener cus-
tomers who desire a bunching onion that will be marketable
over an extended period. It holds its tops longer than
any other type and comes into market as early as the
Pearl or White Queen. It is a true globe form, pure white,
solid ripening evenly. It makes a splendid winter onion
and is a very good keeper. The mature onions grow to
a good size, some average from 7½ to 9 inches in cir-
cumference. The flesh is white and fine grain and has a
good flavor. We are sure that wherever tried this will
become a Market Gardener's favorite, and equally desir-
able for the home garden as a green onion for use during
the Summer season. **Pkt., 10c; oz., 35c; ¼ lb., $1.20;**

See page 53 for quantity prices.

**P.-W.'s Sweet Spanish Onion**

Genuine "Valencia" Type—Riverside Strain

This plant, mild flavored onion was originally imported
from Spain and this particular strain was developed by

**P.-W.'s Sweet Spanish**

selection at Riverside, California. It is a big, globe-shaped,
brownish yellow onion weighing from one to three pounds
depending on how it is grown. It has an unusual sweet,
mild flavor and in the Salt Lake Valley and sections of
similar climatic conditions, if planted early, it can be
thoroughly cured, insuring its good keeping and shipping
qualities. It has become very popular here and is now
the leading onion grown by Market Gardeners in the
inter-Mountain region. Hundreds of carloads are shipped
out annually.

On good soil this variety produces onions measur-
ing from four and one-half to six and one-half inches
in diameter. A yield of two thousand bushels per
acre is not uncommon. In the ordinary method of
planting here it requires three pounds of seed per
acre when planted directly in the field. This is
a
most popular method in this section. The seed we
offer has been grown from selected
onion bulbs and we unhesitatingly
recommend it as having no superior
anywhere. **Pkt., 10c; oz., 50c; ¼
lb., $1.75.**

**P.-W.'s Sweet Spanish Onion**

Genuine "Valencia Type"—DomestI*

Strain

This strain is a Davis County se-
lection from the original Valencia
strain of Sweet Spanish Onion. In
general appearance size, growth and
yield repeated tests prove it to be
almost identical with the "Riverside
strain" offered above. As this strain
has become thoroughly acclimated,
having been developed in higher al-
titudes than the Riverside it is but
natural that it has proved to be a
trifle earlier and more suitable for
planting in the inter Mountain re-

gions. The bulbs from which our
seed is grown were most carefully
selected for size, shape, color
and early maturing qualities, and
we unhesitatingly recommend this
as the best seed for all growers who
early maturity and hardness is a
factor. **Pkt., 10c; oz., 50c; ¼ lb.,
$1.75**.
Hale’s Best Early Muskmelon

This new variety comes from the Imperial Valley in California. It is a melon of decided merit that will fill a long-felt want in long distance shipping because of its extreme earliness. Checking the several tests on this melon, the average period required is 68 days, and some of the tests were made in sections where the season was suitable for melons. It is a salmon flesh melon of exceptional thickness. The shape is oval, fairly prominent ribs. There is no question but what it will be a very valuable market garden variety as it leads the list in earliness among the desirable types of cantaloupes. Pkt., 10c; oz., 20c; 1/4 lb., 65c.

P-W’s Honey Ball Muskmelon

Recently introduced, this cantaloupe comes to us from Texas, but thrives generally where other melons will ripen. Perfectly round covered with netting, this variety is claimed to be a cross between Honeydew and Canaryball. It certainly has the good qualities of both and with its keeping and shipping qualities it will play a large part in the cantaloupe industry, in our opinion. The flesh is greenish, seed cavity extremely small, and edible to the very rind. While very sweet, yet there is some of the spicyness of the green fleshed cantaloupes which is lacking in one of its parents, the Honeydew. Edible in 100 days. Size, 6 1/2 x 4 1/2 inches. Weight about 3 1/2 pounds. (See cut.) Pkt., 10c; oz., 35c; 1/4 lb., 90c.

Persian Muskmelon

While not properly a casaba, the Persian is also of tropical origin. It shows no trace of ribs and is completely covered with netting. The shape is oblong, the flesh extremely thick and pink in color. It is a large melon, weighing about 10 pounds. Edible in 102 days. Size 12-10 inches. A good keeper and a good shipper. It should be picked white yet quite solid. Customers should be educated to purchase half a dozen at a time and set them away to be eaten as they become mellow like a casaba. When properly picked they are ready for the table within six to ten days. Pkt., 10c; oz., 25c; 1/4 lb., 80c.

P-W's Orange Flesh Muskmelon

Undoubtedly the “last word” in the Rocky Ford type of shipping melons and has brought the highest price in every market shipped to. Its appealing deep orange flesh is its distinctive characteristic. It is the most solid, with the smallest seed cell of any type and will weigh more to the crate. Fruit very uniform in size, nearly round and densely covered with a hard gray netting. Recommended for its hardness, prolificness, deep flesh and excellent eating and shipping qualities. (Extra Selected Stock Seed. Pkt., 10c; oz., 25c; 1/4 lb., 65c.

Edward’s Perfecto (Pink Tint) Muskmelon

A new type of the Rocky Ford, showing a trace of Burrell’s Gem. The seed cavity is triangular and the flesh extremely thick, sweet and spicy. There are two strains, the salmon tint and the pink meat, but we believe the pink to be the better. The melons are almost perfectly round, heavily netted, no ribs, and the shipping qualities are so remarkable for the Perfecto will supersede many of the older shipping varieties. Edible in 96 days. Average size, 6 x 5 inches. Weight 3 pounds. Pkt., 10c; oz., 20c; 1/4 lb., 65c.

See page 63 for quantity prices. To secure earlier melons use Hot Caps. (See page 96).

Remember Our Prices are based on delivery to your express or Post Office. You do not have to bother about transportation charges. WE ARE THEREFORE JUST AS NEAR TO YOU AS YOUR POST OFFICE. All charges are Prepaid and Safe Delivery guaranteed.
ASPARAGUS

Sow early in the spring, in a bed of light, rich, well manured soil, in drills one foot apart. When the plants become withered, cut them down and spread well rotted stable manure two inches deep over the bed. Let the plants remain in the seed bed until they are about to grow, early in the spring.

For private garden use, set in rows two feet apart and the plants about a foot apart in the row, with crowns four inches below the surface, and spread the roots. For field culture, the rows should be six feet apart and two feet apart in the rows.

Before winter cover the transplanted beds with about four inches of manure and fork it in the next spring, being careful not to injure the roots. In autumn cut the ripe tops and burn the refuse. One pound of good fresh seed will produce plants sufficient for an acre, and an ounce of seed will sow a fifty-foot drill.

Conover's Colossal — The standard variety for all purposes. Large, thick, wide, tender shoots of very greenish-white color.

Barr Mammoth — Large and tender.

Palmetto — Light green.

P-W's Early Giant Argenteus — Special strain of this famous Parisian Asparagus. Grows to a large size, free from rust, superb flavor. Locally a favorite for canning.

Any of above — Pkt., 5c; oz., 1/2 lb., 55c; postpaid.

Washington Rust Resistant — Most uniform in type; blight and rust resistant; large and excellent quality. Pkt., 10c; oz., 25c; 1/2 lb., 65c.

New Mary Washington — See Novelties, Page 55.

See page 53 for quantity prices.

Asparagus Roots

Strong one year old roots of any of the varieties listed above, 30c per doz.; $1.50 per 100, postpaid. Not prepaid $1.00 per 100; $8.00 per 1000.

Two-year old roots — 50c per doz.; $2.75 per 100, postpaid. Not prepaid, $1.75 per 100; $12.00 per 1000.

CHIVES — Allium Schoenoprasum

An onion-like plant used as a salad and for flavoring soups. Also, the plant makes an excellent ornamental garden bed edging which may be frequently cut, a new growth of leaves appearing soon after each cutting. One sowing will answer for about three years. Pkt., 10c; 1/2 oz., 25c; oz., 85c. Plants: 25c per bunch; two for 45c, postpaid. Not prepaid, 25c each; $2.00 per dozen.

ARTICHOKE

Artichokes are cultivated for the edible bud that resembles the giant thistle. The plants want a very rich soil and plenty of moisture. The seed should be planted in boxes in February and transplanted in the field about the latter part of March or April. With slight winter protection they will remain in bearing three or four years.

Large Green Globe — The most popular variety, buds large, globular, deep green, with a slight tint of purple at base. Pkt., 10c; oz., 50c; 1/2 lb., $1.55.

Jerusalem (Tuberous Rooted) — For hog pasture. When once established it is hard to kill out. Lt., 20c; 10 lbs., $1.50, postpaid. Not prepaid, 100 lbs., $7.50.

Brussels Sprouts

The plants are very hardy and grow from two to three feet high, bearing a large mass of leaves at the top. The sides of the main stem are covered with three or four dozen small cabbage heads which are broken off and cooked the same as cabbage.

Sow and treat the same as cabbage, which see for cultural directions.

Odense Market — Produces an abundant crop of firm, well formed sprouts, thickly set around. Pkt., 10c; oz., 25c; 1/2 lb., 85c.

Chicory

Sow seed the same as for late cabbage plants. The crop of green may be transplanted and set a foot apart in the rows. Best after being touched by frost. One ounce will produce about 3,000 plants.

Large Rooted Madgebupg — Pkt., 10c; oz., 30c; 1/2 lb., $1.00; 1 lb., $3.00, postpaid.

Collards

Sow seeds as early in the spring as the ground can be prepared in a rather light, moderately rich soil, in drills two or two and one-half feet apart, for either garden or field culture. When plants are sufficiently large, thin to seven inches apart in the row. Cultivate well and in the fall dig the roots, slice them and dry in an apple evaporator or kiln constructed for the purpose.

Creole or Southern — Cabbage, Greens, used as a substitute for cabbage in the south. Pkt., 10c; oz., 25c; 1/2 lb., 75c; lb., $2.00, prepaid.

Corn Salad

Sow in spring in drills a foot apart; it will mature in six to eight weeks. For winter and early spring use, sow in drills in August or September. Three ounces to 100 feet of drill. Large seeded.

Broad Leaved — Pkt., 10c; oz., 50c; 1/2 lb., $1.50, postpaid.
BEETS

One Ounce 50 Feet; 4-6 Pounds per Acre

The soil best suited for beet culture is that which is rather light and well enriched. Sow in drills one foot apart and one inch deep, as early as the ground can be worked. When the young plants are two or three inches high, thin to five or six inches. The young plants that are pulled out make delicious “greens,” considered by many superior even to spinach. It is a common practice to plant the seed extra thick to assure an abundance of these tender, fresh plants to use for this purpose. Sowings should be made for succession at least once a month up to the first of July, then making a large sowing to produce a supply of well grown roots for winter use.

After repeated comparative tests we recommend P.-W.’s Early Wonder as the best first early for market gardeners. For all purposes and general planting the Detroit Dark Red is still the leader.

P.-W.’s Dark Leaved Globe—(See novelties page 54.)

Crosby’s Egyptian—This is more globular in shape than the Earlier Egyptian, and one of the best known and most popular varieties. It is very early and of fine quality. Bright red with clear vermilion flesh. Our choice as a first early. Pkt., 5c; oz., 10c; ¼ lb., 35c; postpaid

Detroit Dark Red—Extended experience has shown this variety to be the best deep red turnip beet. Tops small, upright growing, so that the rows may be close together; leaves, stems and vines dark red, blades green; roots globular or ovoid, peculiarly smooth; color of skin dark blood red, flesh bright red zoned with a lighter shade, very crisp, tender and sweet, and remaining so for a long time. Pkt., 5c; oz., 15c; ¼ lb., 35c; postpaid

New Crimson Globe—A perfect beet in all respects; brilliant crimson in color, globe-shaped, with a very smooth skin, and an exceedingly small tap-root; fine grained, sweet in flavor and tender at all times. Very close to the Detroit Dark Red, apparently a trifle earlier. Pkt., 5c; oz., 15c; ¼ lb., 40c; postpaid

Early Wonder Beet—This comparatively new introduction is the earliest of the table varieties. It is a globe-shaped and very uniform in size; skin smooth, flesh a deep blood red, making it especially desirable for pickling and canning. The tops are small and deep colored. It is fine flavored, remaining tender and crisp for a long period. For a first early type it is unexcelled either for home use or market garden. Pkt. 5c; oz., 15c; ¼ lb., 35c; postpaid

For quantity prices see page 63.

Extra Early Egyptian—Popular early forcing or market beet. Eclipse—Almost as early as the Egyptian, but of much finer quality.

Improved Blood Turnip—Very regular, a deep blood red, exceedingly sweet.

Early Model—Globe-shaped, early, deep blood red. Fine dark smooth skins; matures in 50 days.

Any of the above, except where noted, Pkt., 5c; oz., 10c; ¼ lb., 35c, postpaid

SWISS CHARD (Large-Ribbed Spinach Beet) (The City Man’s Garden). This vegetable gives maximum returns for minimum space. Sow early in spring, in rows sixteen inches apart, and thin out to six inches apart in the rows. It can be used all summer when spinach is not available.

Lucullus Swiss Chard—a new moss curled sort. Very large leaves. The mid-rubs are very broad and form a good substitute for asparagus during the summer months. The leaves are very large and tender and may be cut continuously from June until frost; cooked and eaten the same as spinach. Pkt., 5c; oz., 15c; ¼ lb., 40c; lb., $1.25.

Outline Chart Illustrating Beet Types and Their Relation to the Ground Line
STRINGLESS BEANS

Most people concede there is very little difference either in flavor or tenderness between the wax-podded and the green-podded types. Precisely the same culture should be given to each. In both classes there are round and flat podded varieties; it is thought the round are a little more brittle and the flat are better yielders.

Culture—Beans are somewhat tender, but it often pays to take some risks. Plant in warm, loamy soil at the beginning of settled, warm weather in spring, and at intervals for succession until August. Rows may be made 2 feet apart, and the beans planted a few inches apart in the drills, or 3 or 4 beans in hills, 6 to 8 inches apart. If the ground is dry enough to prepare the seed, never irrigate immediately after planting, as it will crust the ground, preventing the beans from coming through, and often cause them to rot. Beans require very little water. After each irrigation or rain much the soil as soon as it is in good working condition. This will conserve the moisture and require less water. Cultivate frequently and shallow; but never when the vines are wet. One pound will sow 100 feet of drill, 60 lbs. per acre.

It is not generally known that—

When your bush varieties of string beans have borne a crop don’t pull them up but as soon as you have finished the last picking, cut the bush off about six inches above the ground. A new growth will appear and in a remarkably short time bear another crop of beans. The same is true of Fordhook Limas.

Green Podded Beans

The green podded beans are by far more popular, and much more universally grown than the wax varieties. Burpee’s Stringless Green Pod is the popular favorite wherever grown and used. As a home garden variety it is a class by itself, but is too tender for shipping any distance, and rather light colored for canning. It is medium early and quite productive. Giant Stringless Green Pod is a larger type green podded bean.

The yield of beans can be greatly increased by seed inoculation. See page 88 for prices.

Our selected, critically grown stocks of Garden Beans have been thoroughly “hand picked” and are not to be compared with the ordinary grades.

Bountiful—This excellent dwarf, green podded sort is similar in appearance to the Improved Early Valentine Six Weeks but is of much better quality. The vines are vigorous and productive. The pods are very long, six to seven inches, straight, broad flat, light green, of handsome appearance and absolutely stringless for canning. They are tender and brittle, much longer than most sorts. The pods are longer, broader and have much longer tips than those of Long Yellow Six Weeks. Seed medium sized, kidney shaped, light yellow with brownish circle about eye. Bountiful is a highly desirable early sort for snaps for the home garden.

Price—Any of above varieties, Pkt., 10c; ½ lb., 20c; ½ lb., 35c; 1 lb., 90c, postpaid.

Wax Podded Beans

New Pencil Pod—This variety is our selection as the best for the home garden or for near-by markets. It is extremely productive, bearing magnificent, straight, pencil-shaped pods, six to seven inches in length, of a rich golden-yellow color; beautifully rounded, meaty, deeply saddled-backed, fresh, brittle, solid and entirely stringless and of mild, sweet flavor.

Price—Any of above varieties, Pkt., 10c; ½ lb., 20c; ½ lb., 35c; 1 lb., 90c, postpaid.

Giant Stringless Green Pod—An immense type of “ Improved Early Valentine” and nearly as early. The pods have all the excellent qualities of the original with much greater size, which greatly improves the appearance. A splendid succession sort to Stringless Green Pod.

Burpee’s Stringless Green Pod—Excellent early variety. Unexcelled for canning. A standard everywhere.

Early Red Valentine—Early, tender, heavy yielding.

Round Yellow Six Weeks—Brittle and tender.

Black Valentine—Pods long, straight, heavy yielding; rust proof.

Refuge or One Thousand to One—Pods about five inches long, round curved, light green, slightly stringy. Used extensively for canning.

Price Any of above varieties, Pkt., 10c; ½ lb., 20c; ½ lb., 35c; 1 lb., 90c, postpaid.

ORDER EARLY

In January and February, if possible, before the Spring rush begins. March and April are our busy months and our full force works day and night under top pressure. We allow you 5% discount for the privilege of filling your order BEFORE MARCH 1.

5%
**Pole and Running Beans**

These beans require a pole or trellis to climb on, if planted in the garden, although if raised in the open field they need no support whatever. Set poles four feet apart each way and plant four to six beans about one inch deep around each pole. Thin out the sprouts plants to a hill, if soil is rich. Pinch off ends of plants when they overrun poles, to get more perfect growth below. One pound will plant about 75 to 100 hills.

- Kentucky Wonder or Homestead
  - The pods are very thick, meaty and deeply saddle-hacked and entirely stringless. Bright yellow in color. The best variety of this class for all purposes. Pkt., 10c; ½ lb., 20c; lb. 35c, Postpaid.

- Lazy Wife
  - Pods medium dark green color, grown in abundance; measures from 4½ to 6 inches in length, broad, thick, fleshy and entirely stringless. Make excellent shell beans. Pkt., 10c; ½ lb., 20c; lb. 35c, Postpaid.

- Pole Lima (King of the Garden)
  - Pods large, straight and handsome. The pods frequently contain five or six very large beans. These beans are of excellent quality, easily shelled. Pkt., 10c; ½ lb., 20c; lb. 35c, Postpaid.

- and old fashioned climber has a

- Scarlet Runner
  - This well known bright scarlet pea-like flower. It not only holds its place as a flower, but the pods when young are fine quality for cooking. Pkt., 10c; ½ lb., 50c; lb., 80c.

**Dwarf Lima Beans**

We recommend the Dwarf or Bush type as being much more desirable than the Pole Limas. They are of easier culture as the vines require no support, the plants do not flag in quality & yield, maturing much earlier; a very decided advantage, especially for the Mountain States. Plant the seed, if possible, in rich, light soil after all danger of frost is over. For kitchen garden the rows should be about 18 inches apart and for field cultivation two or three feet; drop the seed 3 to 4 inches apart in the row covering 1½ to 2 inches deep; to six beans in a hill. Limas will not thrive in over moist soils. Of the great number of varieties tested out we have selected two which we think best adapted.

- Fordhook Bush Lima—The highest quality Pole Lima Bean. It is the old “Kramer” or “Kummerle” improved. This new sort grows very erect, does not come in contact with the ground as did the older sort named above; pods are twice the size of the “Kummerle” and contain 4 to 5 large, thick, beautiful green beans. In contrast with the old sort, which was dry and mushy, this new Fordhook is tender, sweet and juicy; a really palatable bush lima bean. Pkt., 10c; ½ lb., 25c; lb. 40c, Postpaid.

- Burpee’s Improved Bush Lima—Our trials show this to be the earliest maturing of all the large-seeded Limas, and it is the equal or better in all the other qualities that go to make up a desirable bean, either for the home garden or for market. This variety is decidedly hardy. Pkt., 10c; ½ lb., 25c; lb., 40c, Postpaid.

**Shell Beans**

All of the sorts we list under this division are grown exclusively to use as shell beans for winter use. They are grown extensively as a field crop. For horse cultivation they should be sown in rows three to four feet apart, droping the seed 2 or 3 inches deep. The quantity on the soil sown varies with the sort and soil condition all the way from 10 lbs. to 40 lbs. per acre. For dry situations by all means use the Mexican Pinto, but where water is plentiful and you are growing for market, the White Navy is the best known commercially. The Pink Eye is a splendid variety for home use.

- Great Northern — Very popular white shell bean, similar to White Navy being a little more elongated and a trifle larger. Pkt., 10c; lb., 20c, Postpaid.

- Mexican Pinto — Decidedly rich in food value; extra heavy cropper. Pkt., 10c; lb., 20c, Postpaid.

- Pink Eye — Large winter shell bean; white with pink spot at center. Pkt., 10c; lb. 25c, Postpaid.

**Market Gardeners and Large Buyers See Page 53 for Quality Prices on All Varieties of Beans**

**Inoculate Beans. Helps make a bigger crop and improves the soil. See page 88.**
BEETS—For Stock Feeding

The tremendous importance of stock beets to every stock and dairy farmer in America should be shouted from the housetops. The farmer who is not awake to the money making possibilities of this crop has overlooked one of the most profitable crops known to agriculture. Just think of it: A yield of from 20 to 60 tons per acre and the feeding value, pound for pound, almost equal to grain; conservatively figured, just the average yield, therefore, would be the equivalent of a 1,000 bushel yield of oats, as far as feed value is concerned.

Culture—Sow seed in drills 24 to 30 inches apart and thin to about nine inches in row. Requires 8 to 10 pounds of seed per acre.

P.-W.'s Giant Sludstrup. Wonderfully productive, and rich in food value. It grows cylindrical in shape and largely out of the ground; easily harvested, and its shape prevents it being broken in handling. Crops as high as fifty tons to the acre are not unusual. Color of skin reddish yellow above the ground and light rose tint underneath. Flesh firm, crisp and very rich in sugar. Extremely desirable for stock feeding.

Giant Half-Sugar White Mangel—This magnificent half-sugar beet, while yielding nearly as large a yield of easily grown and harvested roots as a crop of Mammoth Long Red Mangels, supplies a food of very much higher nutritive value, the roots for feeding purposes being really more valuable, pound for pound, than those of the very best strains of sugar beet, and the yield under equally favorable conditions is more than double. The roots grow partly out of the ground and crop can be harvested and stored at less expense. We are certain that everyone who plants this variety and grows it with care will be much pleased.

Improved Mammoth Long Red Mangel—This is truly a mammoth, a single root often weighing twenty pounds. The extra large, long roots are blood red in color and very nutritious. Enormously productive, yielding under favorable conditions, as high as 70 tons per acre. Our stock of improved Mammoth Long Red Mangel is a selection and the roots are very large, uniformly straight and well formed; color, deep red; roots straight, tops small.

Danish Red Giant Eckendorfer—Of cylindrical form growing above the surface; heavy cropper.

Golden Tankard—Flesh yellow, differing from others; sheep prefer it; a heavy yielder.

Royal Giant or Half-Sugar Rose—Similar to the Giant Sugar, except color of skin.

Sugar Beets

Usually planted for sugar making. On account of the amount of saccharine contained in the Sugar Beet, it is much relished by stock, and as a fattener it is very desirable, but does not yield the tonnage that is common with the regular Nangel Wurtzels and the Half-Sugar Stock Beets. Culture same as stock beets.

Klein Wanzleben—This variety is the best in cultivation, not largest, but richest in saccharine.

No dairy farmer or stockman can well afford to be without a liberal planting of Stock Beets. A most profitable Farm Crop.

Remember Our Prices are based on delivery to your Express or Post Office. You do not have to bother about transportation charges. WE ARE THEREFORE JUST AS NEAR TO YOU AS YOUR POST OFFICE. All charges are Prepaid and Safe Delivery Guaranteed.
CARROTS

The Carrot is one of the most wholesome and nutritious of our green roots, supplying those precious vitamins so necessary for a health diet. When half grown it is one of the most tender and delicious vegetables and deserves to be more extensively used.

Sow at any time in spring in deep, loose-soil, preferably sandy loam about one-half inch deep, in rows eighteen inches apart and thin to three inches apart. Water freely at all times. One ounce 150 feet of row, 4-6 lbs. per acre.

Table Varieties

P.-W.'s Chantenay (The Market Gardener's Favorite). Top medium sized, necks small, roots tapering slightly, but uniformly stump-rooted and smooth color, deep orange-red flesh, very crisp and tender. Although this variety is variable in size, it is of good quality and is undoubtedly one of the best for both the market and private garden, while its great productiveness makes it very desirable as a field sort. Pkt., 5c; oz., 10c; ½ lb., 35c.

Danvers Half Long An old, popular variety, and in the past the most largely used, not only for stock raising, but for table use as well. The perfect type is about six inches long and about two and one-half inches wide at the shoulder, tapering to a sort of half-point at the bottom. Color is a bright orange scarlet; is very heavy cropper. Pkt., 5c; oz., 10c; ½ lb., 35c.

St. Valery—Much longer than Danvers Half-long, reddish orange color. Makes an excellent table carrot, and its heavy yields renders it valuable for field use. Pkt., 5c; oz., 10c; ½ lb., 30c.

Early Scarlet Horn—Deep red flesh, tender and delicate. Pkt., 5c; oz., 10c; ½ lb., 35c.

Nantes (Half-long Scarlet Stump Rooted)—This is a market garden favorite. The mature roots average about 6 inches in length, smooth, orange color flesh yellow center, very tender of finest quality. Pkt., 5c; oz., 10c; ½ lb., 35c; lb., 1.00.

Oxheart (Guerand)—Very distinct and desirable, smooth and handsome, thick and stump-rooted, about 6 inches long, a rapid grower and of fine quality; color, orange-red a good all-season Carrot. Pkt., 5c; oz., 10c; ½ lb., 30c.

Stock Carrots

Sow in drills far enough apart for horse cultivator and thin out in row to 5 to 6 inches. Requires about three pounds of seed per acre.

We consider the Improved Short White if a yellow carrot is wanted. Improved Long Orange will give good results.

Improved Long Orange A well-known standard sort, roots long, thickest near the crown, tapering regularly to a point; color deep orange. Pkt., 5c; oz., 10c; ½ lb., 30c; lb., 90c.

Mastodon—Very productive, large white. Pkt., 5c; oz., 10c; ½ lb., 35c; lb., 75c.

Improved Short White—This is the best and most productive for stock feeding. Pkt., 5c; oz., 10c; ½ lb., 30c; lb., 90c.

CRESS

Splendid for salad, garnishing. Sow seed one foot apart in open ground sow often for succession, as it soon runs to seed. Water Cress requires a stream of running water, which it will grow without care, except at first keeping weeds from interfering with it.

Extra Curled or Pepper Grass—The leaves of this small salad are much frilled or curled, and are used for garnishing. Pkt., 5c; oz., 10c; ½ lb., 35c; lb., 75c; postpaid.

True Water—A fair growth may be obtained in soil which is kept wet but does not become grown along moist banks or in tubs in water-covered soil. The seed is usually sown and lightly covered in gravelly, sandy loams along the borders of small, rapid streams. The plants will need no subsequent attention under favorable conditions they increase very rapidly by self-sown seed and extension of the roots. Pkt., 10c; oz., 50c; ½ lb., 1.25, postpaid.

“PE-TSAI” CHINESE CABBAGE

The wonderful Green Feed for Poultry from China which has been known to yield 3 tons in a space 40 x 60 feet.

You can’t beat this for Cheap Green Feed. A half pound Chinese Cabbage Seed will furnish enough greens to feed about 1000 hens for 4 months and 3 pounds to an acre for 6,000 hens for 4 months. The cultivation is similar to that for winter cabbage, spinach or lettuce. Sow seed any time through the year in rows half inch deep and 2 inches apart, allowing about 2 inches between the seeds. Cultivate and irrigate around well. Do not allow ground and the inside leaves grow round, more like the Cos-lettuce. The heart is pure white, tender, sweet, and crisp. The young leaves are very popular for use in salad. It is hardy and will keep until early spring if placed in the cellar. The tender leaves make it a desirable plant for poultry greens; cheaper and much more desirable than alfalfa, Swiss Chard or Littuce, because it can be grown with less care and in any convenient place about the premises. Try it for your hens. One ounce will sow 100 feet of row. Pkt., 10c; oz., 50c; ½ lb., 75c; postpaid.

CHINESE OR CELERY CABBAGE

This plant more nearly resembles a Giant Cos lettuce than it does Cabbage. It forms a tall line head, often weighing four pounds; leaves are large, light green, crimped at edges, with broad white midrib. Has very little of the Cabbage flavor. May be eaten raw as a salad, or boiled like Cabbage. This vegetable has become very popular within the last few years. Sold in the markets under the name of Celery Cabbage. For early use, sow seeds in bothed in March, and transplanted outdoors April 15, in rows 24 inches apart, setting plants 15 inches apart in the row. For fall use, sow end of May in drills, and either transplant or thin out to 15 inches apart when plants are large enough. Pkt., 10c; oz., 30c; ½ lb., 90c; lb., 1.50.

See page 53 for quantity prices unless otherwise specified. All prices on this page are postpaid.
CABBAGE FOR ALL SEASONS

As with all other seeds our selection of cabbage stocks are positively from the best sources of supply, and the best strains obtainable, as proved by our own tests:

Culture—Cabbage does best in rich, moist, well prepared soil; extra care should be taken in working it deeply as most varieties of cabbage do not thrive in shallow beds. For the early varieties in the mountain states and similar climatic conditions sow in hotbeds in the late winter or very early in spring and transplant to the open ground as soon as ground can be worked. Don't neglect to "harden the plants off" before transplanting and see to it that they are not too thick in the beds as to make them small. In transplanting to the open ground set in rows 18 to 24 inches apart and 12 to 18 inches between plants in the row. For field cultivation three feet between rows would be better. The fall and winter varieties can be handled in the same way or if the seedbed is in good condition an easier and equally successful method is to bring the seedbeds to the same stage of growth as are the summer plants and transplant to the open ground using about one pound of seed per acre; when plants are well out of the ground thin out to proper distances in the row. One ounce 1500 plants; half-pound to transplant an acre.

About pests—If bothered with cabbage worms, use arsenate of lead and for cabbage louse or aphids, Black Leaf 40 is effective.

Vitamins in Cabbage Increase Consumption—Recent investigations have shown cabbage to be rich in vitamins and as a result of a national campaign to promote the eating of cabbage, cabbage sales are increasing by leaps and bounds. It has been proven that cabbage is a great aid to digestion and people are demanding cabbage as never before.

Copenhagen Market We offer this for the first time in 1913 and it certainly has more than fulfilled our expectations. Repeated comparative tests show it to be as superior when and as early as the famous old Early Jersey Wafefield. Market gardeners are delighted with it. The plants are short stemmed, producing heads almost on the ground; uniformly large, round, solid and of excellent quality. The light green leaves are medium sized, saucer shaped and are always tightly folded; the plants may, therefore, be set closer than most other early varieties. It is a vigorous grower and yields well, and an excellent keeper. Our stock of Copenhagen Market comes to us direct from the originator. (See cut.) Pkt., 10c; oz., 25c; 1/4 lb., 75c.

P.-W.'s Baby Head (Earliest of All)

P.-W.'s Baby Head (Earliest of All)—This is a new forcing cabbage of exceptional merit developed by a Copenhagen specialist. It is of very compact growth forming very few outer leaves and small round solid heads extremely firm, and of excellent quality. As a first early variety it should surely find a place in every garden. It matures a week to 10 days earlier than Early Jersey Wafefield. Pkt., 20c; oz., 40c; 1/4 lb., $1.25; 1/2 lb, $2.00.

P.-W.'s Early Jersey Wakefield We assure our market gardeners customers that our strain of Jersey Wakefield meets every requirement in points of earliness and even head, so that the entire crop can be marketed very early. It grows very compact with nearly flat, deep green leaves, short stem, medium size, very solid, pointed heads of excellent quality. Undoubtedly the best extra early pointed headed cabbage, either for home or market. Pkt., 10c; oz., 30c; 1/4 lb., 75c.

P.-W.'s Early Jersey Wakefield Large Planters and Market Gardeners—See page 53 for quantity prices.

"Golden Acre"—See Novelties, page 55.


P.-W.'s Short-Stemmed Ball Head

Copenhagen Market

Danish Ball Head (or Holland- er) (P.-W.'s)

Short Stemed Strain—This selected stock is the most popular of all late varieties for winter use. Genuine seed grown on Amber Island, Denmark. Many trials have demonstrated the superiority of the Danish seed of this variety over that grown in other countries and localities. It is sure to head, being round, hard and extremely heavy, though not extra large. It can be grown in close quarters on account of its compact habit, and as to its keeping qualities, it comes out of the pit in March or April as fresh as when put in, with absolutely no waste. No cabbage has attained so great a popularity as the true strain of P.-W.'s Short Stemed Danish Ball Head, without doubt the leading fall and winter cabbage. Pkt., 10c; oz., 25c; 1/4 lb., 75c.

No one can afford to risk seed of doubtful origin and quality when the prices of high grade Tested Stocks are so reasonable. By means of our True Ground we select only the best.

Cabbage Plants

Strong, vigorous, well hardened transplanted plants of P.-W.'s Early Jersey Wakefield, P.-W.'s Short Stemed Danish Ball Head, Short-stemmed and Copenhagen Market are ready in April and May. Price 25c per doz; $1.50 per 100, postpaid. Not post- paid, $1.00 per 100; $7.50 per 1000. Ask for quantity prices on field grown not transplanted plants for May and June delivery.

P.-W.'s Short-Stemmed Ball Head

PotrER-WALTON CO., SALT LAKE CITY, UTAB
CAULIFLOWER

Plant the seed in beds in May for fall crop, and transplant the late part of July. For early summer crop, plant the seed in hothobs in January or early in February and the plants will be ready for the field as soon as danger of frost is over. Young plants should be thinned, since they become very spindly if allowed to grow too thick.

Transplant to the field, they should be set in rows two feet apart each way. If they are hardened before setting in the field and the growth is not checked, they will head well.

After plants are set in the field cultivate same as calabrese. If you want the best seeds of the best strains of cauliflower yet introduced, something true to name, type and description, and something you can depend upon, send us your order and you will get it. Our seed comes direct to us from Denmark from the world's best specialists, and is equal to any stock offered elsewhere regardless of price.

P.-W.'s PERFECTION (Improved Snowball) — We obtained this grand new strain from a Danish specialist. Our tests show it to be the best peer of all yet developed. It is adapted for either early or late fall use. It possesses all the good qualities of the best Early Snowball strains. The leaves are longer than the Snowball varieties, and enfold closely over the heads, giving a particularly attractive appearance when displayed for sale. The inner leaves almost cover the snow white heads, bleaching them nicely, thus avoiding the necessity of early tying of the leaves, as is necessary with other early sorts. Another noted trait of distinction is its uniformity in maturing, enabling the grower to harvest practically all of the crop at one cutting. Its sure heading characteristics are remarkable and superior to any other strain that has come under our observation. It produces beautiful snow-white, compact, solid heads uniformly of good size and excellent quality. Pkt., 10c; ½ oz., 75c; oz., $2.25.

P.-W.'s DANISH GIANT (Dry Weather Cauliflower) — The merits of this first-class Cauliflower are recognized by increasing sale every year. Heads are pure white and of fine quality. It is very similar in growth, size and other characteristics to the Early Snowball. Its main feature is the fact that it will stand an unusual amount of dry or warm weather and still produce large, solid heads. In some climates, where hitherto it has been impossible to grow good cauliflower, this fine variety has proven a success. It is ready for market or table about a week later than Extra Early Erfurt. Pkt., 10c; ½ oz., 75c; oz., $2.25.

Erfurt Earliest Dwarf — Very dwarf in habit, producing pure white heads, desirable forcing. Pkt., 10c; ½ oz., 60c; oz., $2.00.

Early Snowball — The well known stand by which has been so long a favorite of home and market gardeners. It is just as good as ever. Suitable for either early or late planting. Under favorable conditions nearly every plant will make a fine, solid head of good size. Pkt., 10c; ½ oz., 75c; oz., $2.25.

(See Page 53 for Quantity Prices)
CELEY

For early summer celery sow seeds of the self-blanching sort in flats under glass during latter part of February or early March. In May to June 15th, set the plants in very rich and well prepared land, six inches apart in the rows, three to four feet apart. Cultivate thoroughly and blanch out by boards set up against rows. For later and winter celery start seed in flats as for early, or directly into open ground. Make the rows for plants one foot apart, sow seed shallow and firm well. The rows should be four to five feet apart. To blanch, earth up gradually to within a few inches of tips of leaves. For winter take up plants with roots, place upright on wet soil in a dark cellar or root house, and pack closely. One ounce will produce from 5,000 to 10,000 plants.

P.-W.’s Improved Golden Crisp The far-famed Utah Celery so much in demand. This strain was originally developed by the Chinese gardeners. Its superior qualities gave them exclusive control of the celery market while their supply lasted. We have finally succeeded in getting a reliable source of supply for the seed of this much sought after variety. It is much stouter, thicker and heavier, with double the uniformity of any known celery. The plant is beautiful in appearance, of close habit and compact growth, and blanches to a beautiful, creamy white. Stems perfectly solid, crisp and of a delicious nutty flavor. One sown, always grown. Pkt., 15c; oz., $1.25; ½ lb., $3.50.

Golden Plume or Wonderful A new type of golden self-blanching celery, with wider leaves and thicker stems. Pkt., 25c; oz., $1.50; ½ lb., $4.50.

Golden Self Blanching—Of quick growth, easy self-blanching habit, with handsome appearance and crisp, sweet flavor. It is a good early celery for home gardens and local markets. Pkt., 15c; oz., $1.00; ½ lb., $3.00.

Giant Pascal—Large, thick, solid, round stalks.

White Plume—But little earthing up to blanch.

Winter Queen—Light green stalks, very solid, tender and crisp; blanches perfectly.

Except where noted, any of the above, Pkt., 5c; oz., 25c; ½ lb., 75c.

Celarcia—(Turnip Rooted Celery) Large Smooth Prague—An improved turnip-rooted celery. Roots large, round and smooth, free from side roots. Pkt., 5c; oz., 25c; ½ lb., 75c.

CELERY PLANTS

Ready May to July—Golden Crisp, Golden Self Blanching and Winter Queen—Strong transplanted plants, 35c per doz.; $1.15 per 100, postpaid. Not prepaid, doz., 25c; $1.75 per 100; $6.50 per 1000.

ENDIVE

A salad vegetable which is becoming very valuable for winter use. should be sown in June or July, in rows, and thinned to about six inches apart. One ounce 300 feet, 4 to 5 pounds per acre.

Broad Leaved Batavian—Broad, more or less twisted and waved green leaves with thick white mid-ribs. Unsurpassed for salads. Pkt., 5c; oz., 20c; ½ lb., 50c.

Green Curled—Very early. The mid-rib being white and whitish, with the outer edges very much fringed and curled, forming a very attractive plant. Pkt., 5c; oz., 15c; ½ lb., 40c.

Egg Plant

The seed germinates rather slowly, and it is well to start under glass, with moderately high temperature, in March. When all danger of frost is over, and the plants are strong, they should be transplanted carefully to the garden or field. Egg Plant does not do as well where cool nights prevail, as in places where nights are warm. It needs a warm climate to incure quick and uninterrupted growth. One ounce 600 to 2000 plants.

Black Beauty Earliest and best of all large fruited Egg Plants. The grand large fruits are thick and most attractive, rich, lustrous, crimson, purple-black. Interior is uniform over the white fruit. Pkt., 5c; oz., 60c; 2 ozs., $1.10; ½ lb., $1.50.

New York Improved Large Purple—Very large and of fine quality. Pkt., 5c; oz., 50c; 2 ozs., $1.60; ½ lb., $1.50, postpaid.

Plants—Transplanted well grown plants of Black Beauty and "New York Improved" ready in May and June. 60c per doz.; $6.00 per 100, postpaid. Not prepaid, 50c per doz.; $2.50 per 100; $30.00 per 1000.

(See Page 53 for Quantity Prices)

P.-W.’s Golden Crisp

KALE or Borecole

A species of cabbage. The leaves are cooked as greens; not injured by frosts. Sown in September in the same manner as spinach, 1 pkt. for 100 feet, 2 pounds per acre.

Dwarf Curled Scotch—Grows very low and compact, with large, bright, deep green leaves, curled, cut and trimmed, resembling somewhat a bunch of moss. Pkt., 5c; oz., 15c; ½ lb., 50c; lb., $1.60.

Tall Green Early Scotch—Very hardy, not injured by March frost. About 30 inches tall with many dark green leaves, intensely curled and cut, forming a very beautiful plant. Pkt., 5c; oz., 15c; ½ lb., 50c; lb., $1.60.

Kohl Rabi

The bulb is edible and when cooked tastes very much like the turnip. If the seed is sown early the young bulbs will be ready for use in the spring, and a planting in July will secure vegetables for fall use. The seed should be planted in the open garden and the young plants thinned to four to six inches.

Early Purple Vienna—Bright purple bulb, leaves and stems green tinged with purple.

Any of above—Pkt., 5c; oz., 25c; ¼ lb., 70c; lb., $2.25.
SWEET CORN

Plant about the middle of May, or as soon as the ground is dry (if planted too early corn is apt to rot) in hills three feet apart each way, seven or eight kernels to a hill; hoe often and draw dirt to the stems; thin to four stalks and break off side shoots. Use plenty of old, fine manure. For successful plant every two or three weeks until the last of July.

**Golden Bantam** Very early, delightfully sweet, finest quality; ears small, golden yellow; very productive. Pkt., 10c; lb., 30c; 3 lbs., 80c.

**P.-W.'s Golden Rod (Evergreen)**—This best of all white, firm, yellow varieties is a cross between Stowell's Evergreen and Golden Bantam. The plants grow six to seven feet high, ears eight to ten inches in length, filled to the very tips with twelve rows of deep, succulent kernels of a rich transparent, creamy-yellow, tender, deliciously melting and “sweet as honey.” This luscious “milk” stage quality is maintained for an unusually long time. Pkt., 10c; lb., 30c; 3 lbs., 80c.

**Country Gentleman** Grand old “stand-by” for main crop corn planting. It produces three to four ears to each stalk. The ears are seven to eight inches long, cob small and densely covered with long, slender white grains with good row formation. Deliciously sweet and tender. Pkt., 10c; lb., 30c; 3 lbs., 80c.

**Early Mayflower** A splendid extra early white sweet corn; is earlier than Man. White Cory and apparently less apt to worm. Ears are pure white, sugary and larger than most other extra early varieties. Should become one of the leading market gardener sorts. Pkt., 10c; lb., 30c; 3 lbs., 80c.

**P.-W.'s Portland Market** This is a new leading early corn and is the largest of all early varieties. It is immense size, together with its large, sweet, plump grains of purest white, on well filled ears, makes it a ready seller on any market. The large ears, often a foot in length, mature very even, and owing to the thin flanks the marketable ears are easy to detect. The stalks grow strong and vigorous, but rather dwarf. Matures about 10 to 14 days after Early Mayflower. Pkt., 10c; lb., 35c; 3 lbs., 90c, postpaid.

**Stowell's Evergreen** The standard main crop variety, much used for the home garden, market and canning. It is hardy and productive, very tender and sugary, remaining a long time in condition suitable for boiling. Our stock has been carefully grown and selected to avoid the tendency to a shorter grain and deterioration in the evergreen character of this best known of all late sorts. The ears about seven to eight inches long, fourteen to twenty rows, with very white grain. The stalks are about seven and one-half feet high. Pkt., 10c; lb., 30c; 3 lbs., 80c, postpaid.

**Pop Corn**

Same cultural directions as Sweet Corn.

**Japanese Hulless Dwarf Rice** Very tender and almost hulless. Ears short and chunky. Heavy yielder. We regard this as the coming commercial variety, no husk when popped. Pkt., 10c; lb., 30c, postpaid.

**White Pearl**—Large, smooth white grains. Pkt., 10c; lb., 25c. postpaid.

**Horse Radish** Grow it in your own garden and grate fresh. Plant the sets small end down in rows 2 feet apart, about 18 inches apart in the row. Set slanting and covered about two or three inches. Price 60c per dozen; $3.50 per 100, postpaid.

**Other Good Sorts**

**Davis County Excelsior**—Ears large, cobs small, and grains almost white. A heavy yielder; very sweet.

**Early Mammoth White Cory**—Stalks short; ears set quite low, of fair size. Very early.

**Early Minnesota**—Ears about 2 inches long; early; kernels broad, sweet and tender.

**Howling Mob**—One of the finest early, large eared sorts; very productive, white. A market gardeners' favorite. Ears 9 to 10 inches long, 16-rowed.

**P.-W.'s Narrow Grain Evergreen**—It makes a handsome ear about 9 inches long with a small cob containing 18 to 20 rows of very deep, narrow white grains. Wonderful canning variety.

**Price any of above**, Pkt., 10c; lb., 30c; 3 lbs., 75c, postpaid.

**Stowell's Evergreen**

**Friel Corn**—See page 45.

**Garlic**—See page 73.
CUCUMBERS FOR PICKLES AND SALADS

The soil best adapted for the culture of cucumbers is a rich warm moist loam. Seed should be sown in the open ground as soon as danger of frost is over. Plant in hills four or five feet each way. As the young plant has many enemies, seed should be sown quite thickly, one-half inch in depth and when well out of the ground thinned to three or four plants to the hill. Cucumbers should be gathered by cutting, not tearing, every day or at least every other day. Leave none to ripen if you want a full crop. One ounce to 75 hills; 2 to 3 pounds per acre.

P.-W.'s Klondike White Spine

After years of experimenting we have found this to be a reliable, all-purpose variety for market garden as well as the home garden. It cannot fail to be profitable, whether grown for early slicing or late pickling. The fruit, when suitable to ship, is six or seven inches in length, green to the tip and ends, solid, crisp and of excellent flavor. Pkt., 5¢; oz., 15¢; ¼ lb., 50¢, postpaid.

P.-W.'s Improved Long Green

The vines are very productive and vigorous. The fruits are very long, often twelve to fifteen inches when mature. They are uniformly slender and of beautiful dark green color. The large warts and spines are well distributed over the surface instead of being clustered at one end as in inferior stocks. The variety furnishes some fruits early but matures the bulk of its crop rather late. It is a standard sort for slicing and is very largely used for pickles. The fruits are often used for making sweet pickles. This is probably the most extensively used cucumber for the home garden and market. We have given this variety especial attention for many years and we believe the stock we offer has no equal. Pkt., 6¢; oz., 15¢; ¼ lb., 50¢, postpaid.

Boston Pickling

Other Good Varieties

Arlington White Spine—Of medium size and good color.

Early Cluster—Makes a rapid growth. Fruits are short and produced in clusters.

Early Frame, or Short Green—Fruits straight but smaller at ends, bright green.

Any of above price, Pkt., 5¢; oz., 15¢; ¼ lb., 45¢, postpaid.

(See Page 53 for Quantity Prices)

Use Hot Caps For Earlier Cucumbers. See page 82.
LETTUCE—the "Salad Stand-by"

Lettuce has developed into an absolute necessity on most tables in America. It is now considered as indispensable as bread or potatoes. This is rightly so as lettuce supplies the Vitamins that are so essential to a well balanced diet. With the aid of a cold frame and just a little thought in planning a succession of plantings this crisp, palatable Salad vegetable can be cut fresh from your own garden from May until December.

Head lettuces are becoming more popular than the loose leaf types; but it is certainly worth while to grow both, making several plantings to insure continuous succession. The "New York" or "Los Angeles Market" is the favorite for market growing in the Mountain States and of course is equally valuable for the home garden. The "leaf" varieties are most easily grown and many consider the "Romaine" or "Cos" type to be the best of all in flavor.

There is a great difference in localities in regard to culture of lettuce that it is hard to get a uniform rule. For the ordinary house garden, it is desirable to use one variety of each type, and several plantings should be made to secure succession. The seed should be planted in rows eighteen inches apart, as early as possible, and the young plants of cabbage head variety should be thinned until four inches apart. Varieties that do not head may be left quite thick, and when fairly well grown, those thinned out may be used. Nitrate of soda, or some nitrogenous fertilizer will pay if used after plants are set. A light, warm, rich, well watered soil is ideal as quick, rapid growth is essential to crispness and flavor. One ounce produces three thousand plants; for head lettuce sow 1 1/2 to 2 pounds per acre; Loose Leaf varieties 3 to 4 pounds per acre.

P.-W.'s Mountain Grown Tested Seeds are Standards of Reliability Wherever Used See Page 53 For Prices On Quantities

Headling or Cabbage Types

New York (Los Angeles Market)—The leading summer curly head lettuce—incredible heads, often 13 to 16 inches across, weighing enormously. Blanches creamy-white; crisp, tender and absolutely free from bitterness. Robust growing, rootling deeply, resisting hot, dry weather; very slow to run to seed and a sure header under trying conditions. The outer is a distinct apple-green. Has no equal as a hot weather summer lettuce, not recommended for forcing Pkt., 10 c oz., 25 c; 1/2 lb., 75 c, postpaid.

P.-W.'s Extra Early —Quickest growing head lettuce, best for forcing. This variety forms fine, hard, medium sized heads a few weeks after planting. It is light green with a slight brownish tint on the head, leaves are smooth, crisp, rich and delicious. The best smooth leaved butter head lettuce. Pkt., 6 c oz., 20 c; 1/2 lb., 60 c, postpaid.

Big Boston—Highly recommended for outside, similar to old Boston but much larger.

Deacon—Has very few waste outside leaves, grows very solid and of delicious buttery flavor.

Hanson—It is wholly free from bitter taste, a sweet and rich flavor. A perfect open air lettuce in all respects, hardy and may be set out in the early spring or grown late in the fall. One of the most popular now grown.

May King—Fine for forcing and outside, medium size yellowish-green heads, very early.

Iceberg—Large, crisp, tender head, outside leaves light green, tinged with brown. Stands hot weather wonderfully well.

Prices on any of above, Pkt., 6 c oz., 20 c; 1/2 lb., 60 c, postpaid.

Cos or Romaine

(Romaine)—This kind of lettuce is distinguished by its long, narrow, spoon-shaped leaves, folding into loose, sugar-leaf heads which blanch better by having the outer leaves drawn about them and tied. The quality is distinct from that of the Cabbage Lettuce and by many is considered very superior.

Sow seed early in spring in rich, well-prepared soil in rows eighteen inches apart, covering one-half inch deep. When plants have two or three leaves thin to three or four inches apart. As the plants begin to crowd, thin and use as required.

Triatonic—The best of this type. Forms large, light green plant with head well folded, quite solid. The flavor is different from ordinary and esteemed by many. Tie plants to blanch them or plant closely, 5 inches apart. Pkt., 10 c oz., 20 c; 1/2 lb., 60 c, postpaid.

Curled or Loose Leaved

Black Seeded Simpson—This is one of the best leaves large, thin and exceedingly tender.

Early Curled Simpson—A popular early sort, forming a large, loose head.

Prices on any of above, Pkt., 6 c oz., 20 c; 1/2 lb., 60 c, postpaid.

Grand Rapids—The most popular variety of greenhouse planting.

Prizehead—Large, loose headed sort; leaves tinged with brown, very heavy.

Prices on any of above, Pkt., 6 c oz., 20 c; 1/2 lb., 60 c, postpaid.

(See Page 53 for Quantity Prices)
MUSK MELONS

Melons thrive best in a light, rich soil. Plant early in May when the ground has become warm, in hills five to six feet apart each way for muskmelons, eight feet for Casabas, and plant in each twelve to fifteen seeds; after all danger of bugs is over, thin out to three or four plants per hill. A few hills for early use may be had by sowing on pieces of sod in beds, and when warm enough transplant to open ground. Melon vines are subject to the same destructive insect and fungus foes as are cucumbers and squash vines. Early and repeated spraying with arsenate of lead mixture is always advisable for these crops. See pages 85 and 86, seed required one dozen 50 hills, two to three pounds per acre.

Rocky Ford Pollock 10-25

A decided improvement on popular old Rocky Ford. Market growers are demanding this strain to the exclusion of all others. The melons are extremely uniform in size, shape, netting, flavor and have good shipping qualities. Pkt., 10c; oz., 15c; $1/2 lb., 50c postpaid.

Hearts of Gold

Hearts of Gold (Improved Hoodoo)—Carefully selected to an oblong type, a little larger than the standard Rocky Ford, very uniform in size. It is a splendid shipping variety and is increasing in use. While it is a ribbed melon the ribs are not prominent and the melon is very heavily netted. The flesh is a rich orange color, fine grained and of excellent flavor. The seed cavity is small. It does not turn yellow when ripe but retains its natural green color and remains solid and firm for days after it is picked from the vine. The vines are very strong growers and are rarely affected by rust. Excellent records were made with this variety for market. Pkt., 10c; oz., 15c; $1/2 lb., 50c postpaid.

Burrel’s Gem (Salmon fleshed cantaloupe, extensively Grown for Market)—Equally good for the home garden. Similar in appearance to its parent, “Defender.” It is easily crated, medium size, oval in shape, slightly ribbed, covered close with net. The flesh is firm, fine grained, rich, deep yellow; vigorous and productive.

Regular Stock—Pkt., 5c; oz., 10c; $1/4 lb., 40c postpaid.

Growers Stock—Seed in sealed 1 lb. bags, $1.35, postpaid.

Persian—See novelties page 57.

Honeyball—See novelties page 57.

Halcy Early—See page 57.

P.-W.’s New Orange Flesh—See page 57.

(See Page 53 for Quantity Prices)

(Use Hotcaps for Earlier Melons. See Page 82).

MUSHROOMS

Mushrooms may be grown by anyone having a supply of fresh manure and a shed or cellar. Under a greenhouse bench where a temperature of 50 to 60 degree is evenly maintained. They make a most profitable crop when successfully grown, and the American market is the best in the world for this most delicious of foods. Full cultural directions with every order.

Pure Culture Spawn—Requires one brick of spawn for about nine square feet of bed. One brick, 15c; two bricks, 30c; five bricks, $1.75, postpaid.

LEEK

Seed should be planted in June for good plants in the fall or winter.

Giant Musselburgh—This is the best variety, having good thick stems which are also long, very vigorous and of a sweet mild flavor. Pkt., 5c; oz., 25c; 1/2 lb., 75c; lb. $2.50 postpaid.
P.-W.'s Kleckley Sweet Watermelon

WATERMELONS

4 ounces to 100 hills. 2-4 lbs. per acre

Plant the seed about the middle of May in hills about 9 feet apart. Use five or six seeds to a hill and thin out to three plants as the second or third leaf shows. A farm crop two to four pounds per acre. A good Watermelon is one of the finest fruits on earth. On a hot day there is nothing like a fresh juicy sweet Watermelon. Some watermelons are much sweeter than others.

P.-W.'s Kleckley Sweet
The best melon for home or near-by markets. There is no melon superior in quality to this strain of Kleckley sweet. The bright scarlet flesh is the ideal of watermelon quality; firm, crisp, entirely free from stringiness or cotton and "sweet as sugar." The melon is oblong in shape, about twenty inches in length by ten to twelve inches in diameter. The skin is a rich, dark green. Pkt., 5c; oz., 10c; 1/4 lb., 35c.

Chillan or Cannon Ball
This is a great favorite in California, both with home and market gardeners. It is nearly round, medium size, skin very dark, rich green, rind thin; flesh bright red and exceedingly crisp and sugary. Pkt., 5c; oz., 10c; 1/4 lb., 35c.

Winter Watermelon (King and Queen)
As the name indicates, this is a winter variety. The firmness of the flesh causes it to be the longest keeper of the watermelon family. Put into a cool place it will keep long into the winter without losing its delicious sweetness or exquiste flavor. Flesh is red and extremely firm, almost as hard as citron—very brittle and deliciously sweet. This melon is round shaped and the skin is very light green, almost white. It is a good drought resister and does well in almost any section of the west where melons of any sort can be grown. No garden should be without this exceptional variety. Pkt., 5c; oz., 20c; 1/4 lb., 60c, postpaid.

(For Quantity Prices See Page 53.)

Halbert Honey—In quality as good as Kleckley's Sweet and by some claimed to be better. Melons average 18 to 20 inches long and are full at both blossom and stem end. Skin is glossy green. Flesh is a beautiful red of rich and luscious quality. For nearby markets there is no variety equal to it. Pkt., 5c; oz., 10c; 1/4 lb., 35c, postpaid.

Tom Watson—Good melon for shipping to distant markets. It grows to a very large size, long in shape, colored a medium green with a light tracing of a darker shade. Flesh is very rich in good quality; seeds white. Pkt., 5c; oz., 10c; 1/4 lb., 35c, postpaid.

Irish Grey—A new heat resistant grey melon; deep red flesh, hard and sweet, without hard center. Pkt., 5c; oz., 10c; 1/4 lb., 40c, postpaid.

Excel—A new, very large black seeded shipping melon; it is a little smaller than Tom Watson, but can be shipped anywhere. Pkt., 5c; oz., 15c; 1/4 lb., 40c, postpaid.

Citron—Small round fruits; for preserves only.

Gray Monarch—Long melon; rind mottled light gray-green; flesh bright crimson; excellent.

Price any of above varieties except where otherwise noted—Pkt., 5c; oz., 10c; 1/4 lb., 35c, postpaid.

P.-W.'s Angelino
We have the black seeded strain which is preferred for market as the melons are not too large which is sometimes the case with white seeded Angelino. The black seeded type is always a better seller. Flavor, habits of growth, and other ways are identical. It is a very attractive melon, nearly round, medium size with dark green skin, irregularly striped a deeper shade. The flesh is a sparkling scarlet, and its edible qualities are unequalled. We believe this variety, on account of its shipping qualities, earliness and productiveness, to be one of the best we grow. It has been used extensively in the Southwest and is fast becoming the most popular melon in this district. The average weight of the melons is 20 pounds. The veining on the Angelino stands out when they are ripe, hence there is no telling when they are ready for market. Edible in 90 days. Size 19x10 in. Pkt., 10c; oz., 15c; 1/4 lb, 50c.

Klondike—See Specialties page 35.
ONIONS

The Onion is one of the most extensively used of all vegetables. It not only contains considerable nutriment and has valuable medicinal properties, but is most useful in counteracting the bad effects of sedentary life. The disagreeable odor it imparts to the breath may be avoided in a great measure by thorough cooking, or by eating a few leaves of parsley.

Sow in drills twelve to sixteen inches apart, sowing the seed thinly and cover thinly. It desired for transplanting, seeds may be sown broadcast, covering a quarter of an inch deep and transplanted when size of straws. Onions prefer a deep, friable loam, very heavily enriched, but no fresh manure, therefore, fertilize the year previous to sowing. Thin three to six inches apart in rows. While moisture-loving, much water is fatal and should never touch the plants after too old to pull for eating green. For keeping quality, always irrigate between the rows. One ounce 100 feet, 4-6 pounds per acre.

It will not do to store onions in large piles or masses, particularly in warm weather, or if they are the least moist, but if perfectly dry when gathered and stored in crates, they can be kept in fine condition till spring. The best way is to keep them dry, giving bottom ventilation if possible, and at a uniform temperature of about 32° to 34° Fr.

Ailsa Craig—Color light straw yellow, fine grained, very mild flavor, mammoth size, often weighs two pounds, ripens early. Pkt. 10c; oz., 25c; ¼ lb., 50c, postpaid.

American Grown Prizetaker—Very large, nearly round, skin light yellow, Flesh pure white in color, crisp and mild flavor. Pkt. 5c; oz., 25c; ¼ lb., 50c, postpaid.

Gigantic Gibraltar—Truly a giant in size, can be grown successfully in districts where season is comparatively long, but we do not recommend it for the north and "high" valleys. It does splendidly in the vicinity of Salt Lake City. An immense, light yellow onion, fine grained, crisp, mild flavored and early. They not infrequently measure 18 inches around, and weigh two pounds. To attain its largest size it should be sown early in the spring in the holed and later transplanted to the open ground. The onion is very productive, a good keeper for a large onion, and for those who like an onion raw, we recommend it highly on account of its mild and acceptable flavor. Pkt. 10c; oz., 25c; ¼ lb., 50c, postpaid.

Southport Yellow Globe—The flesh is snow-white, firm, mild and juicy, skin light golden yellow. Popular for family use or market. Pkt. 5c; oz., 20c; ¼ lb., 50c, 60c.

Yellow Flat Danvers—Largely planted. Flesh fine grained; mild. Pkt. 5c; oz., 20c; ¼ lb., 50c, 60c.

Yellow Strasbourg—Bright yellow, bulbs somewhat flattened; flesh white and mild. Pkt. 5c; oz., 20c; ¼ lb., 60c.

Red Wethersfield—Though well flattened, the solid onions are thick through, skin is a deep glossy, purplish red. Flesh white. Pkt. 5c; oz., 20c; ¼ lb., 50c, 60c.

Southport Large Red Globe—Most popular red onion distinctly globe-shaped, small neck, excellent keeper; deep purplish red. Pkt. 5c; oz., 20c; ¼ lb., 70c.

(See Page 63 for Quantity Prices)
ONIONS—continued

WHITE VARIETIES

CRYSTAL WHITE WAX—Popular Market Onion for the South and Southwest—Selected stock direct from the most critical grower on the Island of Teneriffe. Very large white onion of the Bermuda type, a remarkably good shipper and an excellent keeper. The sweet, mild flavor and large size makes it a ready seller on any market. Pkt., 10c; oz., 50c; ½ lb., $1.75. Teneriffe Grown Seed.

CRYSTAL WHITE WAX—Same as above. Italian grown seed. Pkt., 10c; oz., 40c; ¼ lb., $1.25.

P.-W.’s Southport White Globe—True globe form, pure white, hard and small neck, ripening very early and evenly. A splendid keeper. It grows to a large size, very solid and heavy. Flesh pure white and fine grained, mild, delicate flavor, heavy yielder. Pkt., 10c; oz., 25c; ¼ lb., 80c.

P.-W.’s Peerless White Onion (Seed Field)

P.-W.’s Peerless White—See Novelties Page 56.

Extra Early Barletta—Old-time favorite. From one inch to one-and-one-half inches in diameter. Pkt., 5c; oz., 25c; ½ lb., 75c.

Extra Early Pearl—One of the earliest; mild flavor, good keeper. Pkt., 5c; oz., 25c; ¼ lb., 75c.

Early White Queen—An early; valuable for pickling. Pkt., 5c; oz., 25c; ¼ lb., 75c.

Mammoth Silver King—Large, attractive form; flattened out quite thick through. Pkt., 5c; oz., 30c; ½ lb., 85c.

Round Silver Skin (White Portugal)—Very early, round, of fresh, crisp and tender; excellent bunching or pickles. Pkt., 10c; oz., 30c; ¼ lb., 85c.

White Welsh—Does not form bulb but produces very early bunch onions. Pkt., 5c; oz., 30c; ¼ lb., 85c.

Unless otherwise specified all prices are postpaid.

(See Page 53 For Quantity Prices).

Particular Planters Demand Porter-Walton’s Tested Seeds and Reliable Trees—They’re More Vigorous.

ONION SETS

A great speciality with us. We produce several earloads at our own farm in Centerville. The remarkable firmness, soundness and regularity in size of our Mountain Grown sets has been a matter of comment wherever they have been compared with those from other sections. Having been grown in this high altitude, they will produce a crop earlier than sets from east or south and in half the time that it could be produced from seed.

Culture—Soil requirements are the same as with onion seed. Plant these sets three to four inches apart in the row, depending on the variety and twelve inches apart between the rows and two to three inches deep. It requires from 250 to 350 pounds for an acre.

Brown Bottom Sets—Lb., 25c; 3 lbs., 65c; 10 lbs., $2.00, postpaid.

Yellow Bottom Sets—Lb., 25c; 3 lbs., 65c; 10 lbs., $2.00, postpaid.

(See Page 53 for Quantity Prices)

MUSTARD

One ounce to fifty-foot row.

Excellent greens, of sharp, pungent flavor; cooked the same as spinach. Sow in drills early in the spring, and at frequent intervals throughout the summer.

Giant Southern Curred—Curled leaf, large.

Ford Hook Fancy—Beautiful dark green leaves.

Any of above, Pkt., 5c; oz., 10c; ¼ lb., 25c; 1 lb., 90c, postpaid.

White English—Leaves comparatively small and smooth, deeply cut or divided and of medium dark color. Plant upright, of rapid growth, and soon bolts to seed. Leaves when young are mild and tender; seed light yellow and larger than other varieties. Postpaid. Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 85c.

Garlic Sets—Most pungent of onion family. Lb., 45c; 3 lbs., $1.50, postpaid.

(Write For Prices on Bermuda Onion Plants).

OKRA OR GUMBO

One ounce fifty feet of drill

Sow late in the spring after the ground has become warm, in drills three feet apart, and when plants are three inches high; thin out to ten to twelve inches. They should be well manured. They can also be started in a hotbed and transplanted afterward. The young green seed pods of this plant are used in soups, stews and served like asparagus.

Dwarf Green—Prolific and productive.

White Velvet—Pods are large, perfectly round and smooth and attractive; of superior flavor and tenderness. Plants comparatively dwarf, of compact branching growth. Best for all purposes.

Either of above. Pkt., 5c; oz., 15c; ¼ lb., 50c; 1 lb., $1.50, postpaid.
Guernsey or Hollow Crown Parsnip

**Parsnips**

Parsnips are one of the most delicious of vegetables and have the great merit of being at their best after a freeze. It takes cold weather to bring out their sweetness. They may thus be harvested when the garden has little else to offer. Another great advantage is that they may be left in the ground all winter, and dug during thaws, of in the spring—before they sprout, when they furnish the first crop of the new year. Do not use fresh manure in soil where parsnips are to be grown. It will cause the roots to divide. A deep, rich soil is best for them, and they must be thinned out and given plenty of room to develop. 1 oz. for 100 feet of row. 5 to 8 pounds per acre.

Guernsey or Hollow Crown—A variety with a hollow, or cup-shaped top, where the leaf stem begins. The most popular and best variety for all purposes. Skin smooth and white and flesh tender, while the root grows eighteen to twenty inches long. The best part of it is contained in the first eight inches from the top. Our strain of Hol crown is the thick Shouldered type particularly fine smooth and regular. Pkt., 5c; oz., 10c; ¼ lb., 40c, postpaid.

**Parsley**

It is used for garnishing dishes of most or cooked soups. A few plants in a garden will yield sufficient for a family, providing the leaves are cut often and the plant not allowed to seed. Sow in drills as early in the spring as the soil can be dug in a fine, loose condition. It germinates best during cool moist weather.

One Ounce 500 Plants

*Champion Moss Curled*—A very finely curled bright green and very ornamental variety.

*Double Curled*—A curled variety very hardy and easy to grow deep rich green and by many preferred to the extremely curled varieties.

*Triple Curled*—Extra curled very hard, deep rich green; very decorative.

Any of above, Pkt., 5c; oz., 15c; ½ lb., 40c, postpaid.

No one can afford to risk seed of doubtful origin and quality when the prices of high grade Tested Stocks are so reasonable. By means of our Trial Ground we select only the best. Poor seeds would be costly even if they were given to you.

**Peppers**

Peppers do best in hot climates, but can be grown successfully in most places. They require very rich soil or the seed germinates slowly. They should be sown in hotbeds in March or April and in a warm, sheltered border in May. Sow when the danger of frost is over the young plants should be transplanted in rows two feet apart and eighteen inches in the row in good, rich ground. One Ounce 500 Plants, Half Pound per Acre.

- **Anchorage Chili**—It will supplant entirely Old Mexican Chili. Very desirable for canning because of its fleshiness and pungency. Pkt., 10c; ½ oz., 30c; oz., 50c; ½ lb., $1.50.
- **P.-W.'s Chinese Giant Red**—This is a very large, deep red variety, almost twice the size of either Ruby King or Bull Nose. It is four or five inches thick at the top and about six inches long. Fruits mature only slightly later than the Ruby King, flesh sweet and extremely mild. Pkt., 10c; ¼ oz., 55c; oz., 60c; ½ lb., $1.75.
- **Giant Crimson**—About the size of Chinese Giant, similar in appearance; ripens earlier.
- **Large Ball or Bull Nose**—Large, bright red.
- **Long Red Cayenne**—Small, a bright scarlet, cone-shaped, pungent pods.
- **Napoli Giant**—Unusually mild and sweet, a bright red.
- **Pimento**—The sweetest Pepper grown, as it does not contain the slightest trace of bitterness, medium size and of a shape which is desirable for stuffing. It may be used in salads and for flavoring.
- **Red Chili**—Small bright red, hot and pungent.
- **Ruby Giant**—A cross between Ruby King and Chinese Giant, ripens earlier, very fine.
- **Ruby King**—Fruits large, glossy red, very mild, sweet flavor and can be sliced and eaten like tomatoes. Best for making salsas and most widely planted in the mountain states.

Any of the above not specially priced—Pkt., 10c; ¼ oz., 25c; oz., 40c; ½ lb., $1.10.

**Pepper Plants**

Strong, healthy transplanted plants ready in May and June of the main varieties listed on this page. Price 35c per doz.; $2.00 per 100, postpaid. By express, not prepaid; $9.00 per 1000.

(See page 53 for Quantity Prices).

(For Early Plants Use Hoth caps. See page 82).
POTATOES

The Seed Potatoes we send out will be not only strictly true to name, but hand-sorted, clean, healthy and vigorous.

For early potatoes, which mature in eight to ten weeks from planting, the soil must be particularly rich. A rich clover bed, manured and broken the year before and planted to corn, beans, peas, oats, etc., is in the best shape for giving a good yield of nice, clean potatoes. Stable manure had better be applied to the land the year before. Plant good sized pieces each containing no less than two or three eyes, fifteen inches apart in the furrows, for early potatoes, and eighteen inches apart for late ones. Require 500 to 2000 pounds seed per acre.

**Change Your Seed**—There is a profit as well as satisfaction in planting our seed, for, not only is it pure, but the additional yield to be secured from a change of seed fully pays for the seed, so that the investment itself is sprung trade. There is a good reason why the Triumph should be popular. It is ten days earlier than the Early Ohio, and that is a big feature in favor of the farmer. It is not so hard to rot or scar. The tubers are nearly round with red, smooth skin, and have shallow eyes. 10 lbs. $1.00, not prepaid. Early Rose (not prepaid) 10 lbs. ..............$1.00 Irish Cobbler (not prepaid) 10 lbs. ..............$1.00 Rural New Yorker (not prepaid) 10 lbs. ..........75c

**Write for Quantity Prices**—Market Fluctuates Rapidly.

HOW TO TREAT POTATOES WITH SEMESAN

one pound of Semesan Bel, when treating a fairly large quantity of seed potatoes, is sufficient for 16 to 20 bushels. If the potatoes are very dirty they should be washed thoroughly, drained and surface dried before treating to secure the most economical and effective disinfection.

For each 10 quarts or 2½ gallons of water in the treating tub, have ready one pound of Semesan Bel. Sprinkle enough onto the water to cover its surface and stir it constantly until the disinfectant forms a whitewash-like mixture or dip. Keep stirring and adding the Semesan Bel little by little until the required quantity is mixed into the water. The mixture is then ready for the dipping of the potatoes.

If properly mixed, it requires no further stirring during the treatment and retains its proper antiseptic strength to the last drop. Never commence dipping potatoes until the Semesan Bel is in complete suspension.

The grower requiring only a small lot of seed may utilize the same effective treatment by mixing, in the manner already described, smaller proportionate quantities of the Semesan Bel solution. Free booklet giving full details mailed on request; ask for it. See also page 87 of this catalog.

Comparative Yields Prove Semesan's Value

The left-hand pile represents the yield from three average hills of untreated seed potatoes; the center pile from three hills treated with formaldehyde; and the right pile from three hills of Semesan disinfected seeds. (See page 87 for further information and prices on Semesan).

**Early Bliss Triumph** The leading early potato of today, and is now supplying two-thirds of the markets with new potatoes for the early spring trade. There is a good reason why the Triumph should be popular. It is ten days earlier than the Early Ohio, and that is a big feature in favor of the farmer. It is not so hard to rot or scar. The tubers are nearly round with red, smooth skin, and have shallow eyes. 10 lbs. $1.00, not prepaid. Early Rose (not prepaid) 10 lbs. ..............$1.00 Irish Cobbler (not prepaid) 10 lbs. ..............$1.00 Rural New Yorker (not prepaid) 10 lbs. ..........75c

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one pound of Semesan Bel, when treating a fairly large quantity of seed potatoes, is sufficient for 16 to 20 bushels. If the potatoes are very dirty they should be washed thoroughly, drained and surface dried before treating to secure the most economical and effective disinfection.

For each 10 quarts or 2½ gallons of water in the treating tub, have ready one pound of Semesan Bel. Sprinkle enough onto the water to cover its surface and stir it constantly until the disinfectant forms a whitewash-like mixture or dip. Keep stirring and adding the Semesan Bel little by little until the required quantity is mixed into the water. The mixture is then ready for the dipping of the potatoes.

If properly mixed, it requires no further stirring during the treatment and retains its proper antiseptic strength to the last drop. Never commence dipping potatoes until the Semesan Bel is in complete suspension.

The grower requiring only a small lot of seed may utilize the same effective treatment by mixing, in the manner already described, smaller proportionate quantities of the Semesan Bel solution. Free booklet giving full details mailed on request; ask for it. See also page 87 of this catalog.

PUMPKINS

Plant in April or May, among corn or in the garden, in hills eight or ten feet apart, and otherwise treat in the same manner as melons. Three to four pounds per acre. One ounce to fifty hills.

**Common or Connecticut Field**—A productive, large, orange-colored field pumpkin, usually grown for stock feeding, but it also makes good pies. Pkt., 5¢; oz., 10¢; ¼ lb., 30¢.

**Kentucky Field**—Large, round-flat, creamy yellow skin and flesh. Pkt., 5¢; oz., 10¢; ¼ lb., 30¢.

**King of Mammoth or Jumbo**

This strain produces the biggest pumpkins grown, growing six feet in circumference and weighing 200 to 250 pounds. Outside color deep, orange yellow, flesh very thick, bright, tender, of bright yellow color and excellent quality for pies and other uses. Pkt., 5¢; oz., 15¢; ¼ lb., 50¢.

**Green Striped Cushaw**—Mammoth heavy-yielding cattle Pumpkin, used largely in the San Joaquin Valley. Pkt., 5¢; oz., 10¢; ¼ lb., 30¢.

**Sugar Pie**—A handsome and productive small pumpkin, ten to twelve inches in diameter; flat-round, skin orange. Flesh deep yellow, of fine grain and very sweet. Pkt., 5¢; oz., 10¢; ¼ lb., 30¢.

By means of our Centerville Trial Grounds, we know our Seeds. It costs more to make soil tests, but we are repaid handsomely in the good will of our customers.
DELICIOUS GREEN PEAS

Peas share with sweet corn, parsnips and squash the honor of being the sweetest of vegetables. Their sweetness is in proportion to the wrinkles in the seed, we are told. Smooth seeded varieties are little used except for very early sowing. They will stand cold weather in which the wrinkled sorts will rot.

Our seed peas are raised in high valleys in the Mountains States, by our most critical root crops. From selected stocks and exceedingly productive the growing crops have been carefully inspected and "rogued," and the resulting seed crop thoroughly cleaned and "hand picked." Truly there can be no better stock found anywhere.

Culture—Peas thrive best in rather light, sandy soil, which is not too rich or rich enough to vines and not too heavy, and sown as soon as the ground can be worked. In single or double rows eight inches apart. The dwarf varieties can be planted in rows twelve to eighteen inches apart. By using the various classes of peas and by making several sowings of each, good peas may be had for a long season. In the garden, the pods should be kept picked as the vine will then continue to bear longer. One pound 100 feet of row, 100 pounds per acre.

P.-W.'s Laxtonian or Dwarf Gradus Pea—This is the largest podded of all early dwarf peas. A new sort of decided merit. The vines are vigorous, growing about 10 inches high and producing a large crop of good-sized pods, averaging from nine to ten peas to the pod. The peas are of exquisite flavor and mature early. All the planters who have tried Dwarf Gradus consider it superior to either of the old varieties or Thomas Laxton, and consider it to be one of the best of all the early dwarf peas.

From our own observations, at our trial grounds and the combined experiences of market gardeners in different sections, we have no hesitation in pronouncing this excellent quality to be "The Best Early Dwarf Pea" in the West for market growers. Pkt., 10c; lb., 45c; 2 lbs., 85c, postpaid.

P.-W.'s Early Superb. (See Novelties page 54.)

P.-W.'s Laxton Progress—See Novelties page 54—New English introduction.

P.-W.'s Dwarf Gradus

P.-W.'s Dwarf Prize Pea—This handsome new wrinkled pea is so hardy that it may safely be planted as early as the hard-seeded "Extra Early." The plants are dwarf, growing about 14 inches high, very stout and exceedingly productive, and quality is all that could be desired, exceptionally sweet and tender. It is the ideal variety for the home garden for early harvesting; in our estimation, no other plant can match it for this purpose. Try it this year; we are sure you will please you more. Pkt., 10c; lb., 30c; 2 lbs., 55c, postpaid.

Little Marvel

The most satisfactory pea in the average home garden. In season it is the same as Nott's Excelsior and American Wonder. The big point in its favor is that it remains in prime picking condition a week longer than the older sorts. Very productive, hardy and good, and the peas are nearly 8 inches long, dark green, well filled. Pkt., 10c; lb., 30c; 2 lbs., 55c.

Other Good Peas

Extra Early Varieties—Postpaid Prices

Pkt. Lb. 2 Lb.
Alaska Extra Early—(Smooth) ...10c 30c 55c
Gradus of Prosperity—(Wrinkled) ..10c 30c 55c
Thomas Laxton—(Wrinkled) ......10c 30c 55c
Early Varieties—Postpaid Prices:
American Wonder—(Wrinkled) ..10c 30c 55c
Nott's Excelsior—(Wrinkled) ....10c 30c 55c
Main Crop Varieties—Postpaid Prices:
Bliss Ever-bearing—(Wrinkled) ..10c 30c 55c
Dwarf Telephone—(Carter Daisy) ..10c 35c 65c
P.-W.'s Telephone—Wrinkled ..10c 35c 65c
Yorkshire Hero—Wrinkled .......10c 35c 65c
Strategem—Wrinkled ............10c 35c 65c
Mammoth No-twin Sugar Edible Pod ..................10c 30c 55c

P.-W.'s Alderman—In our estimation, the best of the tall growing sorts for main crop.

This most valuable variety of recent introduction belongs to the old Telephone type. The vines are tall, growing about four feet high; dark green, vigorous and exceedingly productive. The pods are of largest size, often five to five and one-half inches long, filled with large sweet tender peas of most delicious flavor. It answers every requirement of the market grower who wishes a pea that will stand shipping a long distance and still retain its dark green color. For the home garden it is equally desirable. Pkt., 10c; lb., 35c; 2 lbs., 65c, postpaid.

Inoculate Peas with McQueen's Inoculator for Increase Yield. See page 88.

See Page 53 For Quantity Prices

RHUBARB

Sow the seed early one inch deep and when the plants are large enough, thin them to four or five inches apart. The next spring or fall transplant them three feet apart each way in deep, rich soil. For forcing, take up some large roots and place them in a dark corner of the cellar or greenhouse.

One ounce for 50 feet of drill. 8 to 10 pounds per acre.

Victoria—Very large and tender. The best variety to plant and the one most generally used. Pkt., 6c; oz., 1/2 lb., 60c; lb., $2.00, postpaid.

Roots—(Making size, 2 or 3 eyes to each clump. Each, 40c; $4.00 per dozen, postpaid. By express or freight 25 each, $2.50 per dozen; $18.00 per 100.

SALSIFY

Used the same as carrots; sometimes made into cakes and fried like oysters, which they resemble in flavor. Cultivate the same as carrots; can remain in the ground all winter for early spring use, but should be taken up before it starts growing. Succeeds best in light well enriched mellow soil. Sow early in the spring in drills 12 to 15 inches apart, 1 inch deep; thin to 6 inches.

Mammoth Sandwich Island—Grows to a very large size and resembles a good-sized parsnip. Mild and delicately flavored; very popular. Pkt., 6c; oz., 20c; 1/2 lb., 65c.

SWISS CHARD—See page 59.
CRISP RADISHES

For the best results the soil should be light, well pulverized, rich and mellow to insure quick early growth, thus supplying plenty of water. Radishes permitted to grow slowly become tough and pithy. Light frosts will not kill young plants, but will check the growth and they do best when kept crowing right along. For a succession sow every seven days. During the hot months of summer, winter radishes will do better than the early sorts. Winter radishes can be stored, same as potatoes, furnishing an acceptable relish through the winter months.

There is no crop that will bring quicker returns for the market gardener. The leading varieties are P.-W.'s Sparkler and P.-W.'s Sparkler—'s Scarlet. Our recommendations are P.-W.'s Sparkler for early or succession; leicester for second early; and Celestial for winter use.

For Quantity Prices See Page 53

P.-W.'s Sparkler

P.-W.'s Sparkler Radish The Leader for Market—Color is scarlet and white, extremely quick to mature, being ready for the table in 20 days from planting. Valuable for forcing under glass, as well as for the open. Skin very smooth, and its color gives it an appetizing appearance. Selected stock seed.

Pkt., 5c; oz., 10c; lb., 25c.

Long Varieties

Icicle White, slender and tender periling in shape. It quickly grows to market size; is crisp, brittle, mild and sweet.

Long Scarlet Short Top—Bright carmine

White Vienna—Snow white, flesh crisp.

Prices, any of above, Pkt., 5c; oz., 10c; lb., 25c.

ALL PRICES ON THIS PAGE POSTPAID

See Page 53 For Quantity Prices

SPINACH

For spring and summer use, sow early in drills, one foot apart and one inch deep, as soon as the ground can be worked; and every two weeks thereafter for a succession, or for winter or early spring use, sow in September in well-manured ground, covering with straw on the approach of severe weather. It is hard to get the ground too rich. The stronger the ground the larger and more succulent will be the leaves. One ounce 100 feet, 10 to 12 pounds per acre.

P.-W.'s Earliest—Attains a good size without getting pithy. Week earlier than White Tipped, color scarlet.

P.-W.'s Scarlet Turnip White Tipped—Well known market variety.

French Breakfast—Oval form, bright scarlet color, tipped with white.

Price, except where noted, any of above: Pkt., 5c; oz., 10c; lb., 25c.

Winter Varieties

Seed for winter radishes should be sown about the first of August in rich, warm, sandy loam, in rows about twenty inches apart, covering half an inch deep. When well up thin to three inches apart in the row and give frequent cultivation. For winter use, the roots should be pulled and packed in damp sand and stored in a cool cellar.

Chinese Rose—Half-long, flesh pink, solid


Celestial or White Chinese—Pure white, firm

Prices, any of above. Pkt., 5c; oz., 10c; lb., 30c.

Winter Radishes

Market Gardeners and Large Buyers See Page 53. For Quantity Prices on All Varieties of Garden Seeds.
SQUASH

Squash should be planted in warm, light, rich soil, after the weather has become thoroughly settled and warm, as they are very sensitive to frost and cannot be sown until all danger of frost is over. Plant in well manured hills in the same manner as cucumbers or melons. The bushy varieties two to three feet apart each way and the running kinds six to eight feet. One ounce 100 feet. 2 to 3 pounds per acre.

SUMMER VARIETIES

Cocozelle (Italian Vegetable Marrow)—Fruits large, oblong shaped, dark green at first but as they mature become marbled with yellow and lighter green stripes. Fine grained, tender and of excellent flavor. Pkt., 5c; oz., 20c; ½ lb., 45c.

Long White Vegetable Marrow—Skin greenish-white, flesh white, soft and of rich flavor. Pkt., 5c; oz., 15c; ¼ lb., 10c.

Yellow Summer Crookneck—Golden yellow thickly warded; brittle and tender. Pkt., 5c; oz., 15c; ¼ lb., 40c.

For Prices on Quantities See Page 53

WINTER VARIETIES

Chicago Warted Hubbard—Attractive dark green, flesh dry and sweet. Very hard shell insures long keeping qualities. Considered by many an improvement on the old Hubbard. Pkt., 5c; oz., 15c; ¼ lb., 45c.

Delicious—In shape resembles the Hubbard; flesh very thick, deep orange color. Pkt., 5c; oz., 15c; ¼ lb., 40c.

Pike’s Peak or Sibley—Large oval fruits, skin smooth, dark olive-green in color; flesh golden-yellow, very best quality. Pkt., 5c; oz., 15c; ¼ lb., 40c.

Hubbard—Pkt., 5c; oz., 15c; ¼ lb., 40c.

Utah Giant Field—Pkt., 5c; oz., 15c; ¼ lb., 35c.

Swedes or Rutabaga

One ounce 100 feet, 2-3 pounds per acre

Rows should be at least two and one-half feet apart and the plants thinned to eight to twelve inches. Roots frequently grow to be an enormous size. The roots should he taken up before severe frost. Cut off tops within an inch of the crown. Store in a cool cellar or pit.

Improved Purple Top—Remarkable for uniform shape and fine quality; a splendid keeper. Skin smooth; flesh a beautiful yellow color, fine grained. Very sweet and tender. Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 75c.

TURNNIPS

For early use, sow as soon as the ground can be worked in the spring, in drills twelve to fifteen inches apart, and thin out six to nine inches in the row. For succession, continue to sow every two weeks until June. For fall or winter crops sow in July or August. One ounce 100 feet. 2 pounds per acre.

Purple Top White Globe The Best Flavored and Largest Yielder Grown. Without an Equal for All Purpose.

The flesh is firm, fine grained, white and of most excellent flavor. It is a fine keeper, extensively grown and pitted for fall and winter, and produces enormous crops. In our estimation it cannot be beat either for home or market planting. Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 75c.

Extra Purple Top Milan—Earliest turnip in cultivation; flat, smooth, of medium size, with bright purple top and few leaves. Adapted to spring or fall. Pkt., 5c; oz., 15c; ¼ lb., 40c; lb., $1.15.

Other Good Varieties

<table>
<thead>
<tr>
<th>Variety</th>
<th>Pkt. Oz.</th>
<th>¼ lb.</th>
<th>lb.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Extra Early White Milan</td>
<td>5c</td>
<td>15c</td>
<td>10c</td>
</tr>
<tr>
<td>Early Purple Top Strap Leaf</td>
<td>5c</td>
<td>10c</td>
<td>25c</td>
</tr>
<tr>
<td>Snowball</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>White Egg</td>
<td>5c</td>
<td>10c</td>
<td>25c</td>
</tr>
<tr>
<td>White Flat Dutch</td>
<td>5c</td>
<td>10c</td>
<td>25c</td>
</tr>
</tbody>
</table>

Market Gardeners and Quantity Buyers refer to page 53 for prices
TOMATOES

Culture

For early plants sow in hot beds or boxes early in March, in drills five inches apart, one-half inch deep. When the plants are about two inches high, transplant into another four inches apart each way. Plant out in the open ground as soon as danger from frost is over, four feet apart each way, in hills. Water freely at the time of transplanting. When the first fruit is set, pinch off the ends of the branches that attain early fruit. For late use sow in sheltered border in May and set out the plants in July. The green fruits can be picked off before late frost and put under glass. One ounce 1,000 plants, two ounces per acre.

P.-W.'s "King of Earlies"—A new blood red tomato, ripening in 95 days. Very distinct and quite as large as the Red Rock but two weeks earlier, ripening about two days after the Earliana, and very much more productive. Twenty days ahead of either Stone or Greater Baltimore. The vine is short-stemmed, unusually healthy and produces very solid, smooth, meaty and most attractive fruit which is round at the bottom, quite free from cracks, with very little cavity at the stem end. It is similar in appearance to Chalk's Jewel but is five days earlier, considerably larger fruited, far more productive, picking over a longer period, better color and more solid. It will prove a leader in every section where an early tomato is desired. Pkt. 10c; oz. 50c; ½ lb. $1.50. See Cover For Illustrations.

San Jose Canner

OTHER EARLY VARIETIES

<table>
<thead>
<tr>
<th>Variety</th>
<th>Pkt.</th>
<th>Oz.</th>
<th>½ lb.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bonny Best</td>
<td>5c</td>
<td>30c</td>
<td>.90</td>
</tr>
<tr>
<td>Chalk's Early Jewel</td>
<td>5c</td>
<td>30c</td>
<td>1.60</td>
</tr>
<tr>
<td>P.-W.'s Extra Early</td>
<td>5c</td>
<td>30c</td>
<td>1.60</td>
</tr>
<tr>
<td>Earliana</td>
<td>5c</td>
<td>30c</td>
<td>1.00</td>
</tr>
<tr>
<td>Ino. Baer</td>
<td>5c</td>
<td>30c</td>
<td>1.00</td>
</tr>
<tr>
<td>San Jose Canner</td>
<td>5c</td>
<td>30c</td>
<td>1.00</td>
</tr>
</tbody>
</table>

Small Fruited Varieties

<table>
<thead>
<tr>
<th>Variety</th>
<th>Pkt.</th>
<th>Oz.</th>
<th>½ lb.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Red Cherry</td>
<td>5c</td>
<td>40c</td>
<td>1.25</td>
</tr>
<tr>
<td>Strawberry Ground</td>
<td>5c</td>
<td>40c</td>
<td>1.25</td>
</tr>
<tr>
<td>Yellow Pear</td>
<td>5c</td>
<td>40c</td>
<td>1.25</td>
</tr>
</tbody>
</table>

San Jose Canner

Aromatic, medicinal and pot herbs

Most of the varieties of herbs thrive best on sandy soil and some are better flavored when grown on that which is rather poor. In all cases the soil should be carefully prepared and well cultivated, as the young plants are for the most part delicate and easily choked out by weeds. As early as the ground can be made ready, in drills sixteen to eighteen inches apart, taking pains that the soil is fine and pressed firmly over the seed, or they may be planted as a second crop—the seeds sown in beds in April and the plants set out in June. Most of them should be cut when in bloom, wilted in the sun and thoroughly dried in the shade.

<table>
<thead>
<tr>
<th>Herb</th>
<th>Pkt.</th>
<th>Oz.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anise (Pimpinella anisum)</td>
<td>5c</td>
<td>20c</td>
</tr>
<tr>
<td>Caraway (Carum carvi)</td>
<td>Used in flavoring liquors and bread</td>
<td>5c</td>
</tr>
<tr>
<td>Catnip (Nepeta cataria)</td>
<td>Has medicinal qualities</td>
<td>5c</td>
</tr>
<tr>
<td>Coriander (Coriandrum sativum)</td>
<td>Seeds aromatic</td>
<td>5c</td>
</tr>
<tr>
<td>Dill (Anethum graveolens)</td>
<td>Seeds used for flavoring vinegar</td>
<td>5c</td>
</tr>
<tr>
<td>Horehound ( Marrubium vulgare)</td>
<td>Has medicinal qualities</td>
<td>5c</td>
</tr>
<tr>
<td>Lavender (Lavandula vera)</td>
<td>True. For oil and distillation of hydrosol water</td>
<td>5c</td>
</tr>
<tr>
<td>Marjoram (Origanum majorana)</td>
<td>Sweet. Used in seasoning</td>
<td>5c</td>
</tr>
<tr>
<td>Rosemary (Rosmarinus officinalis)</td>
<td>Yields an aromatic oil and water</td>
<td>5c</td>
</tr>
<tr>
<td>Sage (Salvia officinalis)</td>
<td>Common. Culinary herb, also used</td>
<td>5c</td>
</tr>
<tr>
<td>Savory (Satureja montana)</td>
<td>Winter. Used as a culinary herb</td>
<td>5c</td>
</tr>
<tr>
<td>Thyme (Thymus vulgaris)</td>
<td>Broad-leaved English. Used as a seasoning</td>
<td>5c</td>
</tr>
</tbody>
</table>
**NORCROSS** CULTIVATOR-HOES AND WEEDEERS

Will cultivate closer to plants without injuring them than any other type of implement known, leaving the soil loose and untrampled.

**Three Sizes and Prices**
- **5-prong, 4 ft. handle, wt. 3 lbs.**...$1.30
- **3-prong, 3 ft. handle, wt. 2 lbs.**...$1.00
- **"Midget," 9 in. handle, wt. 12 oz.**...$1.65

No. 507—Garden Hoe (Steel)....$1.30
No. B4—Beet Hoe (Steel).......$1.20
No. B16—Turf Edger (Steel)....$1.50
No. B14—Garden Rake (Steel)....$1.55
No. B16—Garden Rake (Steel)....$1.65
No. OL—Spading Fork (Steel)....$1.50
No. O.H.T.—Spading Fork (Steel)....$2.25
No. A62—Spade (Steel)....$2.00
No. 124—Lawn Rake (Steel)....$1.65
Bamboo Lawn Rake (Strong)....$1.50

Dandelion Digger No. 219—Forged frombest material. Each 50c; postpaid,$1.00.

Spading Fork No. A-30—No home gardener should be without this handy tool. Each 75c; postpaid, 90c.

Corn Knife No. 2—Blade 16 1/2 in. long and 1 1/4 in. wide. Used also for trimming young hedges. Each 75c.

Trowel T20—6 inches long, steel. Each 45c.

**T25—Trowel—6 in. Transplanting trowel, one piece rolled steel. Each 25c.**

**Pruning Shears No. 12**—A good low priced shear. Each, $1.25; postpaid, $1.35.

**Pruning Shears No. 14**—High grade, strong, easy to handle, very durable. Each $2.25; postpaid, $2.55.

**Pruning Shears No. 19**—Highest grade, best style and design, patent adjustable lock nut. Transforms pruning into a real pleasure. Each, $4.50; postpaid, $4.75.

**Pruning Shear No. 140**—Forged tool steel, ratchet nut, brass spring, length 9 inches. Each, $1.85.

**Hedge Shears No. 8W8**—Heavy steel, long blades, very serviceable. Each, $3.00; postpaid, $3.25.

**Graspin No. 1**—All-around shear for grass, vines and light shrubs; 6 in. steel blades. Each, $1.35.

**Grass Shears No. VI**—6 in. blade, pitted ground; trowel shank, polished all over. Each, $1.15.

**Grass Sickle No. 3**—Evenly tempered, keen edged. Just the right tool for long grass and weeds. Each, 75c; postpaid, 85c.

**2-PURPOSE SPRINKLER**
The 2-Purpose takes the place of both the ordinary hose nozzle and stationary garden sprinkles. Weight 1 1/2 lbs. Price, $2.10.

**RAIN KING SPRINKLER**
This is one of the best, it throws a fine mist and can be regulated to cover large or small areas. Price, each $3.75.

**Lawn Sprinkler No. 6 1/2 (See above cut)—Revolving sprinkler, heavy steel, green enameled stand, 7 in. high, 7 in. revolving head. Each, $2.50.**

**Lawn Sprinkler No. 10—Stationary, 6 in. long. Brass, indestructible. Each, $1.00.**

**Lawn Sprinkler No. 19—Very efficient and sure to give service. Each, 90c; postpaid, $1.00.**

**THE "OUT-U-KUM" WEED PULLER**
An Entirely New Principle

A slight Push and Pull thoroughly loosens the surrounding soil and removes not only the weed, but the ENTIRE ROOT. Price, $1.00 each.

**P.-W.'s SELF WATERING FLOWER BOXES**
These are made of the best grade of metal with neat round corners and a full roll rim. We consider these boxes the best value on the market today of the self-watering type.

Sizes and prices as follows:

<table>
<thead>
<tr>
<th>H't. in.</th>
<th>W'th. in.</th>
<th>Length in.</th>
<th>Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>No. 1—9 x 7 1/2 x 27 1/2</td>
<td></td>
<td></td>
<td>$3.00</td>
</tr>
<tr>
<td>No. 2—9 x 7 1/2 x 33 1/2</td>
<td></td>
<td></td>
<td>3.50</td>
</tr>
<tr>
<td>No. 3—9 x 7 1/2 x 39 1/2</td>
<td></td>
<td></td>
<td>4.00</td>
</tr>
</tbody>
</table>
Hudson Cultivator No. 212

No. 212 may be used as a double wheel hoe plow, or cultivator astride the row during early cultivation, and as a single wheel cultivator between the rows later. The single steel arch is high enough to permit straddling until the plants are well grown. Shipping weight 37 lbs. Each, $12.50.

Hudson Garden Cultivator

No. 228—Single wheel cultivator, light enough for boy or woman, yet sturdy enough for a man. Equipment consists of a pair of billing plows, pair of surface shovels, four cultivating teeth and a vine-guard. Plows, hoes and teeth are of carbon steel. Shanks are malleable and unbreakable. Frame is of high carbon steel, light and rigid. Shipping weight 25 lbs. Price, $8.00.

Garden Plow No. 32u

Law Mowers

A machine for the home lawn, unsurpassed in quality, durability, and the perfection of its working parts. It is a machine of the very highest class in every respect.

<table>
<thead>
<tr>
<th>Size</th>
<th>Price. Grass Catcher</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;Berkley&quot;—14-inch cut</td>
<td>$12.50 $1.50</td>
</tr>
<tr>
<td>&quot;Speedy&quot;—14-inch cut</td>
<td>14.00 1.50</td>
</tr>
<tr>
<td>No. 305B—16-inch cut</td>
<td>15.00 1.75</td>
</tr>
<tr>
<td>No. 505—16-inch cut</td>
<td>17.50 1.75</td>
</tr>
<tr>
<td>No. 705—16-inch cut</td>
<td>21.25 1.75</td>
</tr>
<tr>
<td>No. 905—18-inch cut</td>
<td>25.85 1.75</td>
</tr>
</tbody>
</table>

Hudson Seeder and Cultivator No. 203

No. 203—(See cut above). It is ideal for the gardener whose requirements do not justify separate machines for seeding and cultivating, being equipped for use as hill and drill seeder, or wheel hoe plow or cultivator. Changes from one to the other are made quickly and easily. Cultivating tools are high grade steel; all shanks are malleable and unbreakable. Weeding hoes and hillling plow have polished and lacquered surfaces and sharpened cutting edges. Wheel is 16 inches high, with 1 1/4 inch tire. Handles are seasoned hardwood adjustable in height. Weight 56 lbs.; Each, $18.75.

Hudson Hill and Drill Seeder No. 205

A practical tool which will open its own furrow, sow the seed, close and pack the row, and mark the next row all in one operation. Will sow any seed from beans to very fine garden seed in drills or hills four to 24 inches apart.

Shipping weight 44 pounds. Price, $15.50.

Hudson Garden Plow No. 320

This high wheel plow is a favorite. Frame is steel with adjustments for varying the pitch of the tools. Wheel is 24 inches high with 1 1/4 inch tire, in suring easy running. Shipping weight 21 lbs. Each, $4.75.

Glass Cloth

Glass Cloth is a strong fabric treated by a patented process to make it transparent, weather-proof and waterproof. It costs much less than glass and for many purposes is superior. Anyone can put it up. It admits abundant light which is diffuses and scatters to all parts of the enclosure. It comes in rolls 36 inches wide and any length. Yard, 40c; 10 yds., $3.75; 15 yds., $5.00.

Cleveland Lawn Weeder

No more broken backs. This device gets at the root of the evil and removes it bodily.

The curved edge of the blade enters and loosens the soil, pressure on the lever then causes the toothed jaw to grasp the plant, and a slight pull suffices to dislodge it without disturbing the surrounding sod. Price each, $1.50.

Protect Chicks & Plants with CEL-O-GLASS

At last an unbreakable material that is neither glass nor wire cloth, yet combines the transparency of glass with the toughness of metal. Extremely light in weight, weatherproof, flexible and durable. CEL-O-GLASS is admirably suited for chicken house fronts and windows; cold-frames and hotbeds ash; greenhouse sides, fronts and partitions. Put up in rolls 3 feet wide up to 100 feet long. Price—50c per running foot.

Cleveland Lawn Weeder
HIGHER PRICES FOR YOUR CROP

Last year thousands of growers added to the value of their vine crops by using HOTKAPS—shown above. This remarkable invention consists of a scientifically constructed wax paper cone that you place over each plant. Thus they are miniature hot-houses that protect plants from frost, wind, rain, insects and ground crustings.

HOTKAPS not only protect plants, but make them grow harder and faster. Thus you get a greater crop production earlier for higher prices! You can add to your next year’s profit with Hotkaps. They cost but a fraction over a penny each.

One man can “set” 3000 Hotkaps per day. They not only bring you higher prices, but are a method of crop insurance—against the danger of the elements. Prices—$1.50 per 100; $1.00 per 1000; $4.75 for 5000; $5.90 per 10000; $231.25 for 25000. “Hotkap” Setter, $2.25 Each.

GRAFTING WAX

We know from actual, personal, grafting experience just exactly what is needed in a wax, and our product is always uniform. It will neither soften and leave the graft, melt in sun, or be too hard to work up nicely in the hand. Excellent to apply to young trees and shrubs that have been barked. It is put on easily and quickly, and will remain there and prevent decay until the wound is covered with new bark. Price, 1/2 lb., 20c; 1/2 lb., 30c; lb., 50c. Postage extra.

POT AND TREE LABELS

Per 12 100 1000
Pot Labels, 4-in., plain, 1000 in box...$0.10 $0.35 $2.95
Pot Labels, 6-in., plain, 1000 in box... .15 .50 3.50
Pot Labels, 8-in., plain, 500 in box... .25 1.00 7.50
Tree Labels, copper wired, plain... .10 .45 3.00

PLANT STAKES

Green Bamboo Stakes—For supporting tall plants—
3 ft. long... .19 for 25c; 100 for $1.50; 250 for $2.75
2 1/2 ft. long... .15 for 25c; 100 for $1.25; 250 for $2.25
2 ft. long... .13 for 25c; 100 for $1.00; 250 for $1.90
Dahlia Stakes—5 ft. x 1 inch x 1 inch, pointed, painted green. Each 18c; doz., $1.80; per 100............ $13.50

Bamboo, heavy, dyed green, for dahlias and roses—
4 1/2 inch diam.: 4 ft. long; doz., 75c; per 100, $6.00
5 1/2 inch diam.: 6 ft. long; doz., 85c; per 100, $6.75

Natural, in skeins weighing from 1 1/2 to 2 1/2 lbs.; excellent for tying up plants, grafts, etc; in original skeins. Per lb., 35c; less original skeins, per lb., 40c.

PLANT URNS AND BOXES

Made of Cement Concrete—Molded to last a life time. Very attractive. (See cuts).

Style B—Size inside 11 1/2 x 11 1/2 in., depth 8 in. Each $5.00
Style C—Width inside 11 1/2 in., length 27 in., depth 8 in. Each $7.00

“HARRIS READY TO USE” PLANT BANDS AND POTS

They are the only really Ready-to-Use bands on the market. There are no mops to put together, no tasks to drive, no folding of corners. All the corners are scored. They always open up square.

They are packed nicely in baskets containing a given quantity and are in order; ready-to-use. Many other makers come loose and have to be arranged in order before using.

Sizes and Prices—Prepaid in U.S.A.
2H Plant Bands, 2x2 in. $1.25 per 250 $4.36 per M
3H Plant Bands, 3x3 in. $1.50 per 250 $4.60 per M
4H Plant Bands, 4x4 in. $2.25 per 250 $7.45 per M
2P Plant Pots, 2x2 in. $1.50 per 250 $4.50 per M
3P Plant Pots, 3x3 in. $2.00 per 250 $7.50 per M
4P Plant Pots, 4x4 in. $2.50 per 250 $8.65 per M

MOSS

Suitable for use in lining hanging baskets and for packing perishable plants. 1/2 lb., 25c; 1/2 lb., 40c; 5 lbs., $1.25 postpaid. Not prepaid in bales of about 75 lb. $7.50 each.

CYCLONE SEED SOWER

A good large sower that meets the three test standards. Hangs by a strap over shoulders of operator. Hopper-sack has a capacity of 1/2 bushel. Broadcasts evenly all varieties of grain and grasses. Weight, 4 lbs.

Price—Each, $2.50. If by mail add 25c extra for postage.

SOILTEX

Test for Acid Soil

With Soiltext a new quick, easy and accurate soil testing method developed at the Michigan State Agricultural College, you can determine exactly in a few minutes whether your soil is acid, and how much lime it needs. Each outfit will make 75 to 100 tests. Full directions, color chart and lime table included. No special knowledge or equipment required. Costs less than 2 cents per sample tested. Soiltext will save you money. Pocket-size Soil Testing Outfit, with color chart and lime table, postpaid, $1.00

NO. 136 IMPERIAL LAWN EDGE TRIMMER

For the man who takes pride in his home and lawn. Trim off the rough straggling grass that overhang sidewalk and curb, also provides quick drainage for sidewalk. Delivers the cutting on the walk to be shoveled up. Each $1.75.

NO. 97 SPRINKLING STAND

Instantly attached or detached. Holds hose firmly at any elevation. Light in weight. Will sprinkle small portions of garden or lawn not reached with sprayer. Each 80c.
SPRAY PUMPS For Every Purpose

All Sprayers are quoted F.O.B. Salt Lake City, unless otherwise noted.

Hudson's Ideal No. 33 (With Compression Tank)
A strong, durable, Wheel Barrel Sprayer, desirable for whitewashing and for every form of spraying. Fitted with regular No. 4 Barrel Pump; Agitator, new dasher type; Tank, heavy copper-bearing galvanized, reinforced top and bottom. Capacity, fifteen gallons; Air Pressure Tank, boiler iron, tested to 275 pounds pressure. Wheel, twenty inch. Shipping weight 150 pounds. Price, $4.00.

Brown's Auto Spray No. 8-G
Similar construction, appearance and capacity to "Hudson Ideal No. 33" described above. Price $4.00 each.

Hudson Trombone No. 123
This pump is double acting, maintaining without undue exertion on the part of the operator. All parts are brass with bronze ball valves, easily accessible for cleaning, etc. This may be used with bucket or knapsack same as "Standard Sprayer." Shipping weight 6 pounds. Price $5.25.

Hudson's New Sunshine Sprayer No. 36
General purpose orchard, field and whitewash sprayer. Galvanized tank capacity 12½ gallons. Discharge equipment 5 feet 6 in., 5-ply hose, 2 foot extension rod and "ideal" angle spray nozzle. Truck equipped with double wheels. Shipping weight 45 lbs. Price $17.75.

Standard Sprayer
Can be used with bucket, knapsack, tank or barrel for spraying orchards, gardens, vineyards, whitewashing, disinfecting chicken houses, killing vermin on stock. Made entirely of brass. Nothing to get out of order.

For pump and nozzle, price $5.25; weight 4 lbs. For knapsack, price $3.50; weight 5½ lbs., Extension rod, price $1.25; Vetical Nozzle, 75c.

Auto Spray No. 5
Similar type, weight, construction and operating features to Standard Sprayer described above. Price $5.25.

Compressed Air Sprayers
For work of any kind requiring a high pressure compressed air sprayer. Practical for use around orchard, barns, chicken houses; spraying trees, gardens, etc. Made of galvanized steel, capacity of tanks about four gallons. Shipping weight 12 pounds.

Brown's Auto-Spray No. 9-D................. each, $7.50
Hudson's Perfection No. 110-G........... each, 7.50

Junior Compressed Air Sprayers
In appearance and operation the following are same as above. Capacity 2½ gallons; shipping weight 8 pounds. Made of galvanized steel.

Hudson's Junior Sprayer No. 140-G........ each, $6.00
Brown's Auto-Spray No. 50-D (Galvanized)........ each, 5.00
Brown's Auto-Spray No. 50-B (All Brass)........ each, 8.50

Hudson Bamboo Spray Poles
These are brass lined. This lining is in one piece, locked to the poles at both ends. Recommended for all work where an extension rod longer than 4 feet is required.

No. 44—Spray Pole, 10 ft., with Stop Cock. Each.......$4.00
No. 46—Spray Pole, 12 ft., with Stop Cock. Each..... 4.35

Hudson Chemical Sprayer No. 150-G
The Hudson Chemical Sprayer will handle in an economical way chemical mixtures made up from an oil base. The Gaskets are not affected by oil, creosote or carbolic acid mixtures; though of the compressed air type it operates on an entirely different principle. The special nozzle is in reality a mixing valve where the liquid is mixed with compressed air. The result is a heavy, penetrating, forceful, atomized mist, continuous, of large volume and forceful, owing to the high pressure. The spray begins without spitting at the very instant that the nozzle lever is pressed. An excellent feature is that when wind is used for fumigating there is very little danger of spraying too much on the animal, which causes burning or scalding of the hide. Must not be used with any solution containing sediment. The nozzle is all brass, with parts easily removed for cleaning, the tank is one and one-half gallon capacity, 7 ½ inches diameter, 6 inches long. Made of prime copper bearing galvanized sheet which resist rust and deterioration. Fitted with brass filler plug. Weight about 7 pounds each. Price $5 each.
BUCKET PUMPS


Hudson's Modoc No. 122—Similar to Auto Spray No. 6. Shipping weight 6 pounds; all brass; 14 inch foot rest and handle. Price $4.50 each.


BORDEAUX WHITEWASH NOZZLE

No. 71—For spraying whitewash or cold water painting. Adjustable to regulate the quantity of liquid used. Throws a wide flat spray, and can be graduated from a fine mist to a solid stream, or shut off completely. Made entirely of brass. Threaded 1/4 inch standard pipe. Price each $1.75.

Perfection Nozzle No. 176—Adjustable and suitable for use on all compressed air machines, shown in cut "Compressed Air Sprayer" bucket. It is equipped with 1/4 inch pipe thread so extension rod can be added. Price each $1.50.

SCOLLAY'S RUBBER PLANT SPRINKLER

Mist spray suitable for house plants indoors; shipping weight 1 pound. Price, $1.25 each.

CONTINUOUS ATOMIZERS

The following operate continuously on both up and down stroke, throw a fine misty spray; handle any solution. Capacity 1 quart. Shipping weight 2 pounds.

Brown's No. 25A—Tin...

Brown's No. 62C—Galvanized tank...

Hudson's No. 424G—Galvanized tank; Tin pump...

P.-W.'s HANDY SPRAYER

We recommend this handy little sprayer to the poultryman for his spraying disinfectant, lice spray, etc. It is well made of bright tin, and with reasonable care will last a long time. The reservoir holds 1 quart. Weight, 1 lb. Price each, 50c.

P.-W.'s BABY MIDGET SPRAYER

Same style as P.-W.'s Handy, Capacity, 1 pint. Price, 40c each.

HUDSON HOUSEHOLD SPRAYER (F2)

This tiny little sprayer holds about one-half pint. It is just the thing for handy little jobs, for a few house plants or for flies, motes, ants, roaches, bed bugs, etc. Price 25c each. Postpaid.

Hudson Household sprayer

HUDSON MAJOR DUSTER 666 A

This model of Major Duster is designed for handling Cyanogas. It is equipped with the regular 12 inch pipe extension and a piece of flexible tubing 12 inches long. This equipment facilitates reaching underground passages of burrowing pests such as rats, moles, etc. Each $1.25.

BARREL PUMPS

Hudson Barrel Spray Pump No. 4-A—It will maintain a nozzle pressure of 200 lbs. Adapted for white-wash, cold water paints, and any kind of insecticides or disinfectants. Equipped with 6 feet 1/8 in. hose and 4 foot insemination rod. Shipping weight 38 lbs. Price $16.00 each.

Auto-Spray No. 7—A very practical pump, may be used with barrel or bucket; ideal for whitewash and cold water paints as solution is constantly stirred by an air jet agitator. Has fulcrum handle. Almost entirely of brass. Foot rest and top casting of strong malleable iron. Equipped with 3 feet of hose, guaranteed for 200 pounds pressure. Brass nozzle with strainer screen. Shipping weight ten pounds. Price $7.50 each.

HUDSON BARREL CART SPRAYER NO. 4-C

This is a portable Sprayer desirable for use where the trees or bushes are too close or too low to permit driving a wagon through between them. It is easily and quickly wheeled from place to place. After the spraying is completed, the cart can be detached and used for hauling water, etc. The Pump and Barrel can also be used as a separate unit when desired. It has ample capacity for two line hose. Will spray whitewash, cold water paints, etc., or any insemination rod. "Ideal" No. 1 and barrel tank holds 50 gallons and the cart is entirely of steel construction; discharge equipment same as Hudson Barrel No. 4-A. Shipping weight complete 213 lbs. Price $52.50.

HUDSON EXTENSION RODS

An extension rod is a great convenience with any compressed air sprayer, bucket or barrel pump. Trees, brush, walls, ceilings and other places can be taken care of easily.

No. 172B—2 foot Brass Extension Rod...

No. 173B—3 foot Brass Extension Rod...

THE AMERICAN BEAUTY DUSTER

This is the most powerful, most efficient and fastest machine ever built for the control of plant pests. It is always ready; requires less than five minutes to get into action. This is of the utmost importance when a serious infestation threatens and the value of your crop is in the balance. Delay at this time frequently means an unsalable crop, and—ruin.

The initial cost is low. The upkeep is negligible. A powerful bellows drives the dust 25 feet high, and will dust 8 acres of trees per day. Weight 16 lbs. Price $19.50 each.

Hudson Cadet No. 683

POWDER GUN NO. 2B DUSTER BROWN

Ideal dust gun for a small number of shrubs or plants. Reservoir holds 1 pint. Price 50c each.

Hudson Cadet Duster

Hudson Major Duster

THE "LITTLE BEAUTY" GARDEN DUSTER

The powerful "bellows" drives a perfect cloud of fine, clinging dust a distance of 12 to 15 feet, making it easily possible to take care of plants in all kinds, including small trees. It is constructed of only the best materials, will last for years. Price $7.50 each.

THE " CALIFORNIA BEAUTY " GARDEN DUSTER

Same in general appearance as American Beauty Duster; the size, capacity and sifting device are reduced and modified, making it especially adapted for truck crop work.

The bellows' action is so rapid as to give an almost vertical flow of dust and still completely under control at all times. Ideal for row crops, such as Peas, Beans, Cabbage, Cauliflower, etc. It weighs less than ten pounds and holds twelve pounds of dust. Throws cloud of dust twelve feet. Price $14.25 each.
**PEST AND DISEASE KILLERS—Continued**

Prices Subject to Change—All f.o.b. Salt Lake City except where otherwise noted.

**Acme All Round Spray**

"Acme All Round Spray" is composed of nicotine sulphate, arsenate of lead and bordeaux mixture, scientifically combined, and recognized by leading authorities, as one of the most stable, powerful, broadspectrum chemicals, controlling chewing and sucking insects, and blight and fungus diseases all in one application. It meets the ever-growing demand for a preparation to control chewing and sucking insects, blight and fungus diseases that infect flowers, fruits, and shade trees, shrubbery and berry bushes.

**Price**—½-lb. size, 35c; lb., 85c each.

NOTE:—A complete spray chart is on the chart in each package, showing the uses of this material on flowers, vegetables, shrubbery, berry bushes, trees and other plant life.

**2-Way Spray**

Contains 14% Arsenate of Lead and 83% Bordeaux Mixture—2 results with one spray. Controls Insects. Combats Blight. Stimulates Foliage.

**Easy to apply—wet or dry**—For dusting, apply lightly, as it comes in the package. In spraying apples, grapes, and most vegetables, use 9½ level tablespoonfuls to 1 gallon of water. On pears, sour cherries, egg plant and peppers, use 7 level tablespoonfuls to 1 gallon of water.

**Prices**—½-lb. carton, 25c; 1-lb. carton, 45c; 4-lb. paper bag, $1.00.

**Arsenate of Lead**

It kills the bugs, sticks to the leaves and does not burn or injure the foliage.

While these qualities make it the favorite spray for fruit trees, it also gives splendid results on vegetables and tobacco.

Arsenate of Lead is recommended to control all leaf eating insects on trees, shrubs, flower and vegetable plants.

When dusting fruit, add 3 parts hydrous lime. Vegetable, 8 parts lime.

**Prices**—½-lb. carton, 25c; 1-lb. carton, 45c; 4-lb. bag, $1.00. Write for quantity prices.

**London Purple**

Costs Less; Results Best. London purple possesses better sticking power than most other insecticides, makes a favored spray for potatoes, tobacco, etc.

On potatoes, use 1½ to 2¼ level tablespoonfuls to 1 gallon of water.

On cotton, dust 1 part London Purple and 3 parts lime. On tobacco for horn worm and flea beetle, use as a dust.

**Prices**—½-lb. carton, 16c; 1-lb. carton, 45c; 4-lb. bag, $1.30.

**Paris Green**

Always uniform, fluffy and free running. Use dry will not clog the dusting machinery.

For potato bugs, use from ½ to ¾ of a level tablespoonful to 1 gallon of water. Apply as a dust on cotton, using 1 part Paris Green to 5 parts lime. On tobacco, use as a dust alone or mixed with Arsenate of Lead.

**Prices**—½-lb. cartons, 20c; 1-lb. cartons, 50c; 4-lb. cartons, $1.50.

**Bordeaux Mixture**

Prevents large losses caused by blight, rot, mildew, scab, anthracnose, and certain other fungous diseases, will stimulate plant growth and greatly increase the harvest. On most trees, shrubs and vegetable plants use 3 level tablespoonfuls to 1 gallon of water.

**Prices**—1-lb. carton, 45c; 4-lb. paper bags, 1.40.

**Lime Sulphur**

For dormant spraying in the fall or early spring against Scale, Spittle Bug, Leaf Cur and Twig Borer, use 9 to 11 tablespoonfuls to 1 gallon of water.

For summer spraying against Scale, Soot and Blotch, Red Spider and Mites, use from 2½ to 3 level tablespoonfuls to 1 gallon of water.

**Prices**—1-lb. can, 35c; 8-lb. can, $1.25; 10-lb. can, $2.00.

**YANOOGAS**

Cyanogas or Calcium Cyanide is a most valuable insecticide as well as rodent destroyer. Cyanogas is used for the control of ants, grape-leaf hoppers, fleas, chinch bugs, grasshoppers in hatching nits, squash bugs, and many other insect pests, as well as rats, gophers and other rodents. It is also used for the fumigation of greenhouses and buildings.

When used, the hydrocyanic gas is gradually liberated and a high gas concentration is avoided. The residue after the gas has escaped is largely ordinary slaked lime which is harmful to stock.

It was used very effective here in Utah in controlling the squash bug. Mr. Christiansen, County Agent of Weber County, demonstrated this very conclusively on squash bug. In his experiments he used the "Acme Dusting Cyanogas" and applied with "The California Beauty Duster" at the rate of 8 pounds per acre. The pest was entirely cleaned up on the area treated, labor entailed, three hours per acre for one man.

**Price**—Cyanogas "A" Dust, 1 lb. 45c; 5 lbs., $2.65; 25 lbs., $9.50. Cyanogas "G" Fumigant, for greenhouses, 1 lb. 65c; 5 lbs., $2.50; 25 lbs., $9.50.
**Poisons Are Not Admitted to the Mails,** so are shipped by Express or Freight only. On all other items not quoted at Postpaid prices, see Zone Rates for amount to remit for postage.

**Antrol**
Keep your house free from ants, flies—your garden free from snails and slugs.

Antrol itself is more attractive than almost any other food, and quickly draws a crowd of workers who quickly clean up the Antrol syrup from the jar to the colony as food. In this way the entire colony is poisoned.

Antrol is harmless to children or pets, yet eliminates the entire ant colony—quickly and surely.

**NOTE:** Antrol is manufactured according to a United States Government formula. The jars are of glass with aluminum top and should last a life time. The syrup can be purchased separately to refill the jars when they need replenishing.

**Prices—Cottage Set (Like illustration and consisting of 9 Antrol containers and Antrol syrup)—per set, $1.60.**
Antrol Syrup, pint, 65c; quart, $1.00; gallon, $2.75.

**Flyrol**
Destroys Flies, Moths, Mosquitoes, Roaches, Bedbugs, Beetles, Silverfish, Fleas, Chicken Lice, Mites and their eggs. Flyrol, sprayed thoroughly with a fine mist, in a stationary measure insuring against contagion. It is 100% active and non-poisonous. Will not harm Estate. No unpleasant odor. A few minutes, and the work is done. Use Flyrol freely during spring and summer months. Pint, 55c each; qt., $1.00; gal., $2.75; 5 gallons, $12.50.

**Snarol**
Snarol is a boom to the gardener. It quickly destroys these garden pests. Just sprinkle Snarol around and under newly planted vegetation. Insure it against destruction. Kills snails, slugs, worms, sow bugs, earwigs, and grasshoppers. 1 lb. pkg., 40c; 3-lb. pkg., 75c.

**Black Leaf No. 40**
Nicotine Sulphate—40 per cent Nicotine—This is the insecticide that is so highly recommended by Experiment Stations. It destroys Aphids (plant lice) Thrips, Leaf-hoppers on all trees, bush and vine fruit, vegetables, field crops, flower bulbs, shrubs; also Apple Red Bug, Pear Psylla and similar soft-bodied sucking insects—all without injury to foliage.

You cannot go wrong by ordering “Black Leaf No. 40” for sucking insects. Prices: 1 oz., 35c; ½ lb., $1.25; 1 lb., $3.50; 10 lbs., $13.50, 1 oz. makes 6 gallons; ½ lb., 40 to 60 gallons.

**Carco**
For Root Maggots—Use 1 before planting. For cut worms, grubs, and other worms—dilute one part CARCO to 125 parts water and apply freely, preferably in the late afternoon.

**Cow Ease (Fly Driver)**
Is a liquid preparation from non-poisonous materials, and can be poured on the skin or smother the skin. A herd of milk cows sprayed regularly through the fly season will yield on the average of 10 to 20 per cent more milk.

**Dusting Sulphur**
The most common fungus diseases that annoy the gardener and orchardist are Early Blight on potatoes, scab on apples and pears, and brown rot on peaches. Dusting Sulphur is good for all these and can be used by itself or in combination with Arsenate of Lead, mixing the two in equal parts. Price—1 lb., 20c; 5 lbs., 65c; 10 lbs., $1.10; 100 lbs., $7.50.

**Cresote**
Used extensively for disinfecting poultry yards and pens. 5 gal., $2.75; 30 gal. bbl., $15.50; 50 gal. bbl., $25.60.

**CARBOA—SEE HEALTH PAINT**

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**Kayso**
A combined cassein spreader and adhesive, its use keeps spray from washing off and reduces arsenical injury. Kayso makes a spray that is effective for use. Use 1 tablespoonful Kayso to 5 gallons of solutions or 1 ½ pounds to 200 gallons. 2-lb. package, 50c.

**Kellog's Ant Paste**
"Ratte Cap"—An effective remedy for control of ants affording a quick, temporary relief. 25c per bottle.

**Melrosine**
The only remedy—endorsed by leading authorities. The General Contact Insecticide that kills Rosebugs and other insects. Used with any good spray-pump, diluted with from 20 to 25 parts of water. Pleasant and harmless to use. Guaranteed effective when used according to directions. On can 1 gal., $6.00; half gal., $3.25; qt., $1.75: pt., $1.00; trial size, 50c.

**Nico Dust No. 6**
Especially prepared for garden pests. For 5 lbs., $1.75; 25 lbs., $25. Ask for quantity prices.

**Nico Dust No. 10**
Similar to No. 6 but containing more nicotine. 5 lbs., $2.00; 25 lbs., $7.25. Write for quantity prices.

**Rat Polson**
"Gits Me Quick!"—Effective remedy against Rats, Mice, Gophers, Ants, and Squirrels. Dust, Price, 50c.

**Sure Noxum**
No Sprayers, No Water, No Mixing. Dust on plants from sifter top carton or through burlap sack. "Sure Noxum" is the strongest garden insecticide. It is effective in destroying parts, pests, cars, lice, shrews and from many kinds. The Bordeaux Mixture in "Sure Noxum" acts in a measure, as a fungicide. 1 lb. can, 30c.

**Tobacco Dust**
When dusted over young plants, it is very efficient in repelling many kinds of bugs and in keeping the foliage from being attacked. Price—1 lb., 75c; 25c; 10 lbs., $1.40; 25 lbs., $3.00; 100 lbs., $9.50.

**VOLCK**
The demand for VOLCK is steadily increasing and it is constantly receiving more and more approval by growers and research men for control of a large number of commercial insect pests. To say that VOLCK is giving more satisfactory results with a greater variety of pests than any spray material ever known is stating the situation conservatively.

A very meritorious new insecticide, the best remedy we know about for mealy bug which has heretofore been beyond control. It is effective against Ants, Yellowjackets, Cicadas, Leafhoppers, and Scale insects. Dilute one part "VOLCK" to 32 parts water for general use. Price—½ pint, 50c; pint, 75c; qt., $1.00; 1 gallon, $5.00; 1 gal. 13½ gal., $13.50; 14 gal. drum, $28.00; 28 gal. drum, $40.00.

**Weed Killers**
There is nothing more annoying to the well-kept home grounds than weeds constantly coming up in the flower beds, paths, and gardens. This weed killer may be applied by means of a sprinkling apparatus of any kind. Price—1 lb., 35c; ½ lb., 20c; 1 lb., 50c.

**Whale Oil Soap**
Fish Oil—Dissolve 2 ounces of soap to 1 gallon of water for all small fruit. For large fruit trees, shade trees, etc., dissolve 4 ounces of soap to 1 gallon of water. 25 effective ½ tsp spreader for "Black Leaf 40," Nico-Fume, Liquid, etc.

**Revenge**
A most effective powder for head lice and other vermin on Poultry, Hogs, Dogs, Cattle and Horses. "Revenge" gets them when other remedies fail. Apply direct as well as sprinkled in runs and bedding places. 1 ½ lb. pkg., 65c; 3 lbs., $1.00; 6 lbs., $4.00; 15 lbs., $16.75, 25 lbs., $26.25.

**Health Paint**
Health Paint is a white paint and a powerful disinfectant in powder form. Ready to use when mixed with water. Easily and quickly applied to wood, brick, stone, cement, and over whitewash. One pound will cover 100 square feet.

Low in cost and an excellent disinfectant white paint 5 lbs., 15c; 10 lbs., $1.50; 25 lbs., $3.50; 50 lbs., $6.00; 100 lbs., $11.00.
SEED AND NURSERY SPECIALISTS FOR WESTERN U. S. A.

SEMESAN SEED DISINFECTANTS

AMERICA'S PREMIER AGRICULTURAL DISEASE TREATMENTS

Ask for Free Semesan Booklets for Vegetables, Flowers, Cereals and Nursery Crops

Seed disinfectant is now generally regarded as an essential requirement of profitable farming. It is only a few seasons since the four consecutive and disastrous seasons afflicted the crops of the United States white potato crop and over 32 per cent of its sweet potatoes.

Approximately every fifth of an acre of white potatoes and every third of an acre of sweet potatoes were a total loss. Had the infected acreages been disease-free and healthy farming practices could have obtained from 25% to 35% larger crops, or they could have obtained the same yields. For potato growers, acreage with far less expenditure of time, money, and materials, the Semesan disinfectant family, comprising Semesan for general crops, Semesan Jr., for corn, and Semesan Bel, for potatoes, has proved to be the grower's solution of the disease hazard in farming.

Seman provides the one effective method of controlling the various damping-off diseases as illustrated in the first picture above. It is being used with wonderful results in all sections of the country on grains, field crops, vegetables, flowers and ornamentals. Brown Patch of grasses, a disease which swiftly destroys the expensive turf of golf greens, estate lawns and tennis courts, can be prevented, and, if treated soon enough, cured with Semesan. It is equally applicable—little skill required—at a cost of only 1c to 1c per pound of seed. The cheapest crop protection you can buy.

Seman Jr. is used as a dust disinfectant to control the ear, root and stalk rots of corn. In tests conducted in both Illinois and Iowa by the Federal and State Governments, Semesan Jr. increased yields from diseased seed varying amounts up to 38%. These tests confirm the experience of other agricultural experts and practical farmers who report increased corn crop yields from Semesan Jr.-treated seeds of 20% to 40% or more. The 32% increase shown in the illustration below is the result of Semesan Jr. seed treatment.

Seman Jr. is applied only as a dust, at the rate of 3 ounces per bushel of seed. The cost therefore ranges from about 4c an acre of field corn to over 7c per acre of sweet corn. Send for Semesan Jr. Corn Pamphlet with full directions.

Seman Bel is used especially for the seed disinfection of white and sweet potatoes. It is not recommended for the treatment of the common farm, flower and vegetable seeds as Semesan is more suited for these purposes. It has the remarkable property of destroying many disease germs and at the same time stimulating seed pieces to speedy germination, healthy growth, early maturity and the production of larger crop yields. Semesan Bel is applied to whole or cut seed pieces as a whitewash-like mixture by adding the proper amount of water to the Semesan Bel Improves Potato Yields method. Because of its effective control of the common potato diseases a higher percentage of potatoes of certified grade can be obtained through its use than from any other practical means. Ask for Semesan Bel Potato Booklet.

PRICES FOR SEMESAN DISINFECTANTS

<table>
<thead>
<tr>
<th>2 oz.</th>
<th>$0.50</th>
<th>25 lbs.</th>
<th>$62.50</th>
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</thead>
<tbody>
<tr>
<td>8 oz.</td>
<td>$1.60</td>
<td>50 lbs.</td>
<td>$122.50</td>
</tr>
<tr>
<td>1 lb.</td>
<td>$2.75</td>
<td>100 lbs.</td>
<td>$240.00</td>
</tr>
<tr>
<td>5 lbs.</td>
<td>$13.00</td>
<td>300 lbs.</td>
<td>$705.00</td>
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</table>

SEMON JR.

<table>
<thead>
<tr>
<th>4 oz.</th>
<th>$0.60</th>
<th>25 lbs.</th>
<th>$35.70</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 lb.</td>
<td>$1.75</td>
<td>50 lbs.</td>
<td>$72.50</td>
</tr>
<tr>
<td>5 lbs.</td>
<td>$8.00</td>
<td>100 lbs.</td>
<td>$140.00</td>
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</tbody>
</table>

Prices for Semesan Bel are the same as Semesan Jr. except there is no 4 oz. package available.

CUPRO-JABONITE (Copper Carbonate Dust)

U. S. Department of Agriculture recommends it. Convenient and easy to use. Smut is controlled, germination not impaired. Plant diseases better seed disease, less seed required. It is estimated that the farmers of the Northwest alone lost five million dollars last year due to the ravages of smut. There is no reason why the wheat grower should suffer such losses as this report shows, when it can easily be avoided by treating the seed with Cupro-Jabonite (Copper Carbonate—18% to 20%). During the last two or three seasons reports from experimental stations have shown that the use of the 18% to 20% Carbonate is equally as efficient as where the stronger grade is used. It has proven quite as beneficial and is available at a much less cost than the Pure Copper Carbonate. The usual way to use it is for a 1 oz. of the dry powder per bushel of seed grain for heavily smutted districts, 3 oz. per bushel for ordinary conditions and 2 oz. where smut is not bad and to tonic the stand. This mixing can be done at any time prior to planting; after which the seed can be allowed to remain with no fear of deterioration of any kind. The mixing can be done by hand with a shovel or in any kind of a mixer machine from a barrel churn to the large concrete mixer used by the wheat interests in the Northwest and Canada.

Price is $30c; 5 lbs. $1.50; 100 lbs. $22.50; 250 lb. bag, $52.50 each.
FERTILIZERS AND SOIL BUILDERS

New Whizz Fertilizer

"New Whizz" fills a long felt want for rebuilding fertility in run down and poor soils. The formula for Whizz was carefully worked out by one of the leading Soil Experts of the West. It is scientifically right and its practical value has been fully proved. It not only contains the desired chemical elements so essential but these are combined with organic humus materials in such a manner to insure their being properly assimilated and taken up by plant life.

In the application of "Whizz" the soil is enriched not alone by the plant food elements in the fertilizer itself but also by chemical elements already in the soil heretofore unused, which, are now rendered available by the action of the materials contained in this meritorious new Fertilizer.

We unhesitatingly recommend "Whizz" as a fertilizer that fully measures up to general soil requirements in this region and as a leader for Lawns, Shrubbery, Vegetable and Flower Gardens.

For lawns use at rate of three to five pounds per hundred square feet; it is so finely pulverized that it can be sown similar to seed.—After applying sprinkle immediately with water.

Prices—12 oz. carton, 20c; 25 lbs., $1.00; $3.50 per 100 lbs.

"Plant Life" Lawn Special

This is a mixture especially for the lawn. A 25-pound package contains more available plant food (nitrogen, phosphoric acid and potash) than is found in 1,000 pounds of ordinary manure, without the disagreeable features connected with it. The humus and nutrients in this package are so finely dispersed that a 25-pound bag will cover a space of lawn 30-40 or 1,200 square feet, though larger applications will give increased results.

Prices—10-oz. carton, 25c; 10-lb., 90c; 25-lb., $2.00; 50-lb., $3.50; 100-lb., $6.00; not prepaid.

Fertilizers are quoted f.o.b. Salt Lake unless otherwise noted, if by mail add extra for postage.

STIM-U-PLANT

STIM-U-PLANT is the only complete plant food in tablet form. Guaranteed analysis 11 per cent Nitrogen, 12 per cent Phosphoric Acid, 15 per cent Potash—all of which elements are water-soluble and immediately available to the feeding root-hairs of the plant.

The tablet form is of great value because it gives an exact feeding unit, there is no messy mixing, no unpleasant odor, and gives a maximum efficiency because no food-value lost in scattering, leaching, or run-off of soil surface water. Makes repotting of plants unnecessary as it replaces the food withdrawn by the growing plant. Easy to use; complete directions with each package. Order STIM-U-PLANT tablets with your seed and plant order.

Price: 10 tablets, 15c; 30 tablets, 25c; 100 tablets, 75c; 1,000 tablets, $3.50.

Ground Bone Meal

An excellent fertilizer for all gardening purposes; particularly adapted for fruit trees, roses, and all nursery stock. Should be forked in the soil in the fall if possible. 5 lbs., 45c; 10 lbs., 75c; 25 lbs., $1.25; 50 lbs., $1.75; 100 lbs., $3.25.

Fish and Meat Meal

Very much in demand for celery, lettuce and other garden crops. 25 lbs., $1.50; 100 lbs., $5.00. Write for quantity price.

SULPHATE OF AMMONIA

Use only after plants are above the ground. If used in liquid form dilute 2 oz. of gallon of water and do not apply oftener than twice a week.

Apply 75 to 100 lbs. per acre; stimulates growth almost immediately. 5 lbs., 50c; 25 lbs., $1.75; 100 lbs., $3.75.

THE MODERN LEGUME INOCULATOR

MODERN farmers demand modern methods of farming, and agree that all legume seed should be inoculated. McQueen's Inoculator is the modern legume inoculator—made for farmers—by farmers—to make farming pay. It is field bred and farm grown and is able to give fine results under your field conditions.

McQueen's Inoculator is the only nitrogen-fixing bacteria that is

ABSOLUTELY GUARANTEED
to give satisfactory results or your money back. This is for your protection. You are the judge of results.

Inoculate your Alfalfa, Sweet Clover, Soy Beans, Vetch, Peas, Beans and Clowers of all kinds with McQueen's guaranteed Inoculator that hastens maturity, increases the crop, improves its quality, enriches the soil and saves fertilizer bills.

Simple directions for mixing Inoculator with your seed are printed on each and every package of McQueen's. Only a few minutes of your time is required to inoculate your legume seed. Many Master Farmers use McQueen's. Tremendous sales on McQueen's Inoculator enables us to offer this quality merchandise at the following

REduced PRICES

FOR CLOVER AND ALFALFA

1/2 bushel size Inoculates 30 lbs. seed. $ .50
1 bushel size Inoculates 60 lbs. seed. 1.00
3-1 bushel size Inoculates 180 lbs. seed. 2.50
6-1 bushel size Inoculates 360 lbs. seed. 4.00
GARDEN SIZE—For Garden Peas, Beans, Sweet Peas and Lima Beans. 1-1 bushel size Inoculates 120 lbs. seed. $ .50
2 bushel size Inoculates 240 lbs. seed. 1.00
3-2 bushel size Inoculates 360 lbs. seed. 2.50
6-2 bushel size Inoculates 720 lbs. seed. 4.50

FOR SOY BEANS, COW PEA'S, VETCH AND OTHER PEAS AND BEANS

1 bushel size Inoculates 60 lbs. seed. $ .50
2 bushel size Inoculates 120 lbs. seed. 1.00
3-2 bushel size Inoculates 360 lbs. seed. 2.50
6-2 bushel size Inoculates 720 lbs. seed. 4.50

GARDEN SIZE—For Garden Peas, Beans, Sweet Peas and Lima Beans. 1-1 bushel size Inoculates 120 lbs. seed. $ .50
2 bushel size Inoculates 240 lbs. seed. 1.00
3-2 bushel size Inoculates 360 lbs. seed. 2.50
6-2 bushel size Inoculates 720 lbs. seed. 4.50

Be sure to include McQueen's Inoculator with all your Legumes Seed orders.

ALWAYS STATE KIND OF SEED YOU WISH TO INOCULATE
BIRDS AND NURSERY SPECIALISTS FOR WESTERN U. S. A.

**CANARY BIRDS**

Every singer we sell is known by us to be a singer. We do not send out on trial or exchange birds. State the amount you wish to pay and leave the selection to us. All birds are graded as to singing qualities and range of notes.

Hartz Mountain Strain—These are the popular singers and usually are mixed in plumage. Considered the most vigorous. Price ranges from $6.00 to $10.00 each depending on range and quality of song.

St. Andreasburg Rollers—With the wonderful soft-toned rolling notes. $10.00 to $15.00 each depending on song.

**BIRD FOODS AND REMEDIES**

<table>
<thead>
<tr>
<th>Postpaid Prices</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Bird Manna</strong>, in cakes ready to attach to edge, each... $0.15</td>
</tr>
<tr>
<td><strong>Bird Bitters</strong>, iron tonic, per bottle... $25</td>
</tr>
<tr>
<td><strong>Bird Salve</strong>, small size can... $0.25</td>
</tr>
<tr>
<td><strong>Bird Booka</strong>, Raising and Care of Canaries... 40</td>
</tr>
<tr>
<td><strong>Bird Cage Disinfector</strong>,... 25</td>
</tr>
<tr>
<td><strong>Bird Ointment</strong>,... 25</td>
</tr>
<tr>
<td><strong>Cranberry</strong>, wheezing and Asthma, per bottle... 25</td>
</tr>
<tr>
<td><strong>Egg Flake and Fruit</strong>, Spratt's excellent food, pkg... 30</td>
</tr>
<tr>
<td><strong>French's Bird Seed and Biscuits</strong>, 10 oz. pkg, each... 25</td>
</tr>
<tr>
<td><strong>French's Canary Exercise Balls</strong>,... 25</td>
</tr>
<tr>
<td><strong>Lice and Mite Powder</strong>, large size without guns... 25</td>
</tr>
<tr>
<td><strong>Lice and Mite Powder</strong>, with guns... 25</td>
</tr>
<tr>
<td><strong>Leg Bands for Birds</strong>... 50</td>
</tr>
<tr>
<td><strong>Mexican Salve</strong>, for sores, package... 25</td>
</tr>
<tr>
<td><strong>Mite Powder</strong>, in Bags... 20</td>
</tr>
<tr>
<td><strong>Nestling Food</strong>, Spratt's, package... 25</td>
</tr>
<tr>
<td><strong>Orange Color Food</strong>... 25</td>
</tr>
<tr>
<td><strong>Parrot Food</strong>, mixed for parrots, 12-oz. pkg... 25</td>
</tr>
<tr>
<td><strong>Pollicracker</strong>, special food for parrots, 12-oz. ctn... 25</td>
</tr>
<tr>
<td><strong>Song Restorer</strong>, tonic... 25</td>
</tr>
</tbody>
</table>

**BIRD SEED, ETC.**

Not Prepaid, add postage if by mail 1 lb.

- **Canary Seed**, re-cleaned, 2 lbs., 35c... $0.20
- **Cuttle Bone**, 5c a piece, 1/2 lb., 30c... 1.00
- **Flax Seed**, medicinal laxative, 1/2 lb., 15c... .25
- **Hemp Seed**, re-cleaned imported, 1 lb., 25c... .15
- **Maw Seed** (Poppys), re-cleaned, 1/2 lb., 15c... .40
- **Millet Seed**, large yellow, 2 lbs., 25c... .15
- **Oats, steel cut**, special bird size, 2 lbs., 25c... .15
- **Pep, Bird Seed, Imported**, 2 lbs., 35c... .20
- **Sunflower Seed**, 2 lbs., 25c... .15
- **Thistle Seed**, 1/2 lb., 20c... .12
- **P-W's Special Mixed Bird Seed**, 2 lbs., 25c... .20

**BREEDING CAGES**

With Solid and Wire Partitions, Metal Drawer and Closed Back. Complete with 4 glass cups, 6 perches, and 2 nests.

- **No. 866—17 1/4 x 8 3/8 in., height 14 in.** $5.50
- **No. 86— 19 1/2 x 9 in., height 14 3/4 in.** 6.75
- **No. 87—22 x 11 in., height 16 3/4 in.** 7.75
- **No. 35—24 1/2 x 12 1/2 in., height 17 in.** 9.60

**CAGE EQUIPMENT**

- **Cage Charm Bella**, tiny bells to hang on cage, each... $0.10
- **Perchea**, all lengths, plain wood; give size wanted each... .15
- **Seed and Water Cups, "Single Point"** opal, porcelain, also glass, either 2 for 35c; each... .20
- **Canary Cages, 2 inches diameter small, round, opal; 3 for 35c; each... .15
- **Cuttle Bone Holder**, Hendryx No. 1, to hold small piece in place... .15
- **Bath Diahea, porcelain, oval shape, medium size; 2 for 45c; each... .25
- **Bath Diahea, glass, oval shape, medium size; 2 for 35c; each... 1.50
- **Bath Mongoose**, glass sides, fits to side of cage; each... .15
- **Bird Cage Nets**, wire cloth, 4 inches diameter; 2 for 45c; each... .25
- **Nestling Hair**, per package... .15
- **Cage Springs**, single coil, brass, heavy; each... .15
- **Cage Spring**, single, with 2 ft. ladder chain, adjustable; each... .30
- **Cage Spring**, double, with 2 ft. ladder chain, adjustable; each... .30

**CAGE EDDGE**

We carry regularly in stock a full assortment from the best manufacturers, both in Brass and Japanned. We list below some of the most popular types and sizes. Should you desire any other style or type, write us. We can secure it for you.

**BRASS CAGES**

**Round** (with base). See cut. Each

- **No. 274—10 in. diameter, height 13 1/2 in.** $3.75
- **No. 276—11 in. diameter, height 15 1/2 in.** 4.65
- **No. 276—11 1/2 in. dia., height 17 1/2 in.** 5.10

**Round** (Similar to above except have Flat Bottom, 30c)

- **No. 1274—10 in. diameter, height 13 1/2 in.** $3.55
- **No. 1275—11 in. diameter, height 15 1/2 in.** 4.45
- **No. 1276—11 1/2 in. dia., height 17 1/2 in.** 5.00

**Fancy** (See cut)

- **Each**
  - **No. 7777—9 in. dia., height 13 in.** $11.50
  - **Ob-long (See cut)**
    - **Each**
      - **No. 660—10x7 in., height 14 1/2 in.** 8.50
      - **No. 668—10 1/4 x 7 1/4 in., height 15 1/4 in.** 9.50
      - **No. 610—13x8 1/4 in., height 16 1/4 in.** 10.50

**JAPANNECED CAGES**

- **Ob-long—9 1/2 x 6 1/2 in., height 12 1/2 in.** $3.00
- **Ob-long—10 1/2 x 7 in., height 13 1/2 in.** 3.75
- **Ob-long—11 x 7 1/2 in., height 14 in.** 4.00

**CAGE STANDS**

- **No. 18A—Brass, height 5 ft. 7 in.** $5.00
- **No. 29A—Brass, height 5 ft. 7 in.** 4.25
- **No. 3119—Wrought iron, height 5 ft. 7 in.** 2.00

*Brass Tube House Cage Brass Cage Style No. 274, No. 7777*
**CAL-O-RATION**

**THE WONDER MEAL FOOD**

For Dogs, Cats, or any Carnivorous Animal

CAL-O-RATION is a cooked, canned, meat product, ready to feed, containing meats, cereals, vegetables and oils. It contains the necessary vitamins and the proper amount of calories necessary for the proper development of any species of Dogs, Cats or Foxes. The amount to feed is regulated by the size of the animal. Generally speaking, animals weighing 8 to 15 lbs., 3 meals in one can, 25 to 30 lbs., 2 meals in one can, 45 lbs. and over, 1 can per day. Best results will be obtained if CAL-O-RATION is fed once or twice a day. To afford the necessary change in diet for dogs, which the dog authorities advocate, is to mix with CALIFORNIA DOG FOODS. Price per can, 90c each; 3 for 50c; 1 case, 4 dozen, $7.80. We stock Ken-L-Ration at the same price as Cal-O-Ration.

**GOLD FISH AND SUPPLIES**

**FISH, FOOD, IMPORTED, RICE WAFER**

$0.15

**BAG BALM (OR HEALER)**

This is a splendid remedial agent for the various diseases that attack the udder. Per can 65c each, post-paid.

**KOW-KARE**

The Best and Cheapest Insurance on the Health of your Cows. Price: Large size, $1.25; medium size, 65c; six large cans, $2.25.

**Lee's Hog Oil Wormer**

Lee's Hog Oil Wormer has proven in thousands of tests that it will positively and unfailingly expel the worms from swine. One quart is 32 doses for pigs weighing from 40 to 75 lbs. Qt size, $3.50; half gal, $6.00; gal, $10.00.

**CATTLE AND HOG SUPPLIES**

**Blatchford's CALF MEAL**

One pound makes a full gallon of pure milk-substitute as less than half the cost of using milk.

Blatchford's Calf Meal raises calves from babyhood, easy to feed, saves both milk and money. Satisfaction guaranteed with every box. 25 lb bag, $1.65; 50 lb bag, $3.15; 100 lb bag, $6.00.

**DOG SUPPLIES**

Note: Add postage on all sizes if desired by parcel post. Allow 1 day for extra weight or packing.

CALIFORNIA DOG BISCUITS are a prepared food containing all the ingredients necessary to maintain health and vigor in the dog. It does away with the cooking and the mess. If good health in your dog is to be maintained you must feed good, clean, wholesome food.

**DOG BISCUITS**

For Grown or Large Dogs, Feed California Meat-Bone Dog Biscuits once or twice a day. Observation is the only means of telling how many biscuits to feed at one meal. Don't feed too many. Dogs are best condition when not to fat. The biscuits can be fed dry or moist. If moist, mix the meat with them, vegetables or pure milk, gravy or soup over them. The dry biscuit keeps the teeth and gums in good condition. **GROWING on** them produces the saliva so beneficial to digestion. Keep fresh water where the dog can drink at will and give plenty of exercise, if any food is left remove it. (bulk) 1 lb $1.25, 20 lbs. $6.75; 100 lbs. $13.50.

**Puppy Foods**

**Puppy Biscuits Nut Bone—** A perfect food for puppies. Puppies should be put on these when about two to three months old and continued until about six months old. (bulk) 1 lb, 20c; 2 lbs., 35c; 5 lbs., 85c; 10 lbs., $1.50; 25 lbs., $2.50; 50 lbs., $5.75; 100 lbs., $13.80.

**Circles or Ovals**—Minute oval cakes for puppies and dogs. Ideal pocket size. (bulk) 1 lb, 20c; 5 lbs., 90c; 10 lbs., $1.70; 100 lbs., $11.00.

**Pup-O**—Granulated for puppies, for young puppies, sly feeder or for recovery from sickness. (bulk) 1 lb, 25c; 5 lbs., 95c; 10 lbs., $1.80; 100 lbs., $15.00.

**FISH Moss, in bunches, tied with lead; when in stock per bunch, 20c; 2 for $0.35.**

**Dip Notes**—1 inch diameter; 1 1/2 inch handle; each, $0.25. GROOTES, similar to Castles; small, 9/16 in. high, each, $0.35.

**Castles, 3 inches high; for 4-gallon Globes, each, 40c.**

**Castles, 4 inches high; for 5-gallon Globes, each, 50c.**

**Castles, 6 inches; for 3-gallon Globes, each, 65c.**

**Fancy Small Sea Shells, assorted.**

**FISH GLOBES—** Heavy Glass (By Express or Freight)

1-quart size: round Globes; each, $0.35; 1/2-gallon size; round Globes, each, $0.60; 1-gallon size; round Globes, each, $1.25; 2-gallon size; round Globes; each, 1.75.
Little Putnam Brooder Heater

Here is a brooder heater ideal for a small bunch of chicks. Can be put inside of a box or small room, and handle up to 75 chicks. Burns kerosene and is of all metal. Absolutely safe in every respect, and a child can operate it satisfactorily. Price, $.75 each.

Little Putnam Stove

The popular miniature oil stove is made of galvanized materials without solder and all joints are oil tight. Most serviceable stove on the market for the purpose for which it is suitable. $1.95 each.

MOE'S CHICK HOVER


LAMPS, BURNERS

And Extras for Incubators and Brooders

Lamp Bowls for No. 2 Burners, galvanized; each (postage extra 10c)..................$0.65
Lamp Bowls for No. 3 Burners, galvanized; each (postage extra 10c)...........$0.95
Lamp Burners, No. 2, brass; each...........................................$0.55
Lamp Burners, No. 3, brass; each...............................................$0.70
Burner Reducers, fits No. 3 bowl and No. 2 burner..................$0.80
Burner Enlarger, fits No. 2 bowl and No. 3 burner.................$1.50
Wicks, Common, for all sizes; each, 5c; 6 for..............$0.25
Tin Chimney for No. 2, 30c; for No. 3 burners; each...$0.30
Thermostat, Round Pattern, 3-in. (Wafer) 75c each, 2 for........$1.25

Incubator-Brooder Thermometer, with legs, each..................$1.25
Brooder Thermometer, each..................................................$0.55
Brooder Wood Mounted Thermometer, each..........................$0.85

RELIABLE INCUBATOR SPECIAL REJECTED (on stand) ea........$1.25
No. 5981—Tycos Hotbed Thermometer, special construction for soil; each........2.25

PAPER EGG BOXES

Paper Egg Boxes—All styles made of extra hard cardboard and will carry eggs safely. Shipping weight 2 lbs. per dozen.

Standard—3 x 4, dozen, 25c; 100, $1.75; 250, $4.00.
Saddle—2 x 6, dozen, 30c; 100, $2.00; 250, $4.50.
Continental—6 x 6, dozen, 50c; 100, $2.95; 250, $6.25.
We are car load shippers of Egg Cases and Fillers. Write for quantity price.

LEG BANDS

Spiral Colored Bands—These are made of celluloid and in six different colors, black, red, green, yellow, cerise and dark blue. They will not tear off and put on very quickly and easily and will last a life-time. Birds cannot lose or remove them. They are made in sizes for every breed of poultry, pigeons and baby chicks. Please state breed when ordering. Prices of the four poultry sizes: 12 bands, 25c; 25 bands, 30c; 50 bands, 50c; 100 bands, 75c, Pigeon and duck-size old bird 40c; sizes desired to be received. Prices, 12 for 25c; 25 for 50c; 50 for 100c; 100 for $1.15, postpaid.

Duchamp—Adjustable—Best adjustable leg band. Has neat, compact and smooth fastening, with no catching points; easily adjusted and absolutely secure. Prices, 12 for 25c; 25 for 50c; 50 for 100c; 100 for $1.75, postpaid. Plain seals, 75c each.

CHICKEN MARKERS

Chicken Markers—Each. Postpaid.

Potty’s Perfect Poultry Punch, small hole; each, 30c.

MOE’S IDEAL POULTRY PUNCH, nickel plated, each, 50c.

NEST EGGS

Lime Nest Egg—Preferred by many as they are unbreakable and more natural in shape and color. Price, 5c each, 40c per dozen. Wt., 2 lbs. per dozen. Postage extra. NEST EGGS—Tinted grade, strong and durable. Each, 5c; dozen, 40c; weight, 1/4 lb. per dozen.

CAPONIZING SETS

Caponizing has become very popular with the poultry men, as it brings the highest prices in poultry. The capon makes quick, tender meat, and much of it. To make a profit in poultry raising all male birds should be made capons. Very easy to do after reading special book of instructions. Set complete, each, $4.00, postpaid.

RELIABLE POULTRY NET (FOR CATCHING POULTRY)

This net is made of stout cord attached to heavy galvanized wire 1 inches in diameter, securely riveted to a wood handle 5 inches in length. Users say “Its the handiest tool out for catching ‘em.” It is equally serviceable as a fish net for landing the “big fellows” that heretofore have been left in the lake. Price $1.35 each.

Egg Scales

This scale grades eggs quickly, easily and exactly. Has a sliding shelf and a flip at the edge of the finger, and you can get all weights required with the one slide, thereby taking the place of two scales. It has four steel knife-edge bearings, which guarantees a correct weight and long life. Price $3.90 each.

Acme—Is being used by thousands of poultry specialists, egg producers, managers of hatcheries and marketing associations, convincing evidence that the Acme is considered a most practical and efficient egg scale. The United States Government Poultry Specialists are using it as their official scale in establishing the standard grades of market eggs. Construction is very simple and durable. Operation is very quick and entirely automatic in indicating the grade of the egg. Price, $3.60 each.

Moisture Guide

American Institute of Incubator Moisture Guide is made of an Aluminum Holder, which is fastened in the incubator, and a glass tube which is filled with water when the eggs are in the tray. It shows the correct evaporation of the eggs for each day of incubation, as well as for the total period. No incubator is properly equipped without a Moisture Guide as well as a thermometer. Millions of chicks die in the shells each year because of improper evaporation. Price complete, $1.00 each.

EGG-O-LATUM

Keeps fresh eggs for one year. Simply rubbed on, it seals the egg tight and is air, moisture, odor and egg gasproof. Eggs put in September or October are as fresh in January, February or March as when first laid and are worth double the price. Coat the palms of your hands with Egg-O-Latum and then roll and rub the eggs in your hands. You can do a dozen per minute.

50c per jar—enough for 50 dozen eggs. Add 10c per jar if by mail. Weight and long life. Price, $2.90 each.
NEW ROYAL BROODER STOVES

Burns Hard or Soft Coal or Coke

The Royal Coal Burning Brooder Stoves are made from the best grey iron castings and are furnished complete with one piece wire-hound extra heavy gauge galvanized iron canopies, which are riveted to heavy cast rings and fit tightly about the top of the stoves. They are guaranteed to burn the fuels listed above satisfactorily.

The No. 1 Stove requires a 4-inch pipe and all other sizes 5-inch.

All Royal Brooder Stoves are absolutely guaranteed to be satisfactory as to Material and workmanship and are sold on a money back guarantee.

Automatic Regulation

The fire is controlled by a check draft on the top of the stove and a direct draft below the grate, both automatically regulated by two wafer thermostats which are simple yet positive in action and keep the fire under perfect control, insuring uniform temperature at all times.

Larger Coal Capacity

The most essential feature of the Royal Stoves is the shape and capacity of the fire-pots. The larger the body of fuel the less fuel is actually used and the more sure you are of having a constant, steady fire at all times. The Royal Stoves will carry fire through the night, long after smaller stoves, with unsatisfactorily designed fire-pots have gone out. Thousands of chicks are lost each year by brooder stoves not having sufficient capacity to carry fire through the night.

Rocker Type Grates

The grates in the Royal Brooder Stoves are all of the rocker type being much larger in diameter and about twice as thick as the grates put on the average brooder stove. This assures more satisfactory and much longer service.

Sizes and Prices F. O. B. Salt Lake City are as follows:

<table>
<thead>
<tr>
<th>No.</th>
<th>Chick Capacity</th>
<th>Coal Capacity</th>
<th>Size Hover</th>
<th>Height</th>
<th>Diameter Grate</th>
<th>Shipping Weight</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>250</td>
<td>.23 lbs.</td>
<td>42&quot;</td>
<td>22&quot;</td>
<td>&quot;</td>
<td>78 lbs.</td>
<td>$18.00</td>
</tr>
<tr>
<td>2</td>
<td>500</td>
<td>.35 lbs.</td>
<td>42&quot;</td>
<td>21 1/2&quot;</td>
<td>&quot;</td>
<td>90 lbs.</td>
<td>23.75</td>
</tr>
<tr>
<td>3</td>
<td>1000</td>
<td>.55 lbs.</td>
<td>56&quot;</td>
<td>23&quot;</td>
<td>1 1/4&quot;</td>
<td>115 lbs.</td>
<td>29.50</td>
</tr>
<tr>
<td>6</td>
<td>1200</td>
<td>.73 lbs.</td>
<td>60&quot;</td>
<td>33&quot;</td>
<td>1 1/2&quot;</td>
<td>150 lbs.</td>
<td>34.00</td>
</tr>
</tbody>
</table>

Now Improved Type. Burns Hard or Soft Coal or Coke. Bigger and Better. Larger Coal Capacity. Larger Pipe.

Burns Soft Coal Successfully

This statement in the past has been badly abused as many manufacturers have declared their brooder stoves would burn soft coal successfully when their construction was such as to not permit their doing so. We call your attention to three features which are necessary in burning soft coal.

1st: Larger coal capacity, because soft coal burns faster than hard coal.

2nd: Larger pipe size and combustion chamber, to prevent clogging from coal tar or soot which accumulates from slow burning fire, especially more so with soft coal.

3rd: More accurate draft control, because soft coal will check down much more rapidly than hard coal and requires an auxiliary draft to build it back up again.

SOL-HOT OIL BROODER

You take no risk when you order a Sol-Hot

Is now made with twin float, automatic oil level control in sizes as per specifications below. Comes assembled ready for immediate operation and no leveling is required. Two sizes furnished with Giant Burner. Price F.O.B. Salt Lake City.

<table>
<thead>
<tr>
<th>No.</th>
<th>Size Canopy</th>
<th>Chick Capacity</th>
<th>Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>24</td>
<td>24 inch</td>
<td>100 chick</td>
<td>$13.50</td>
</tr>
<tr>
<td>34</td>
<td>34 inch</td>
<td>250 chick</td>
<td>19.50</td>
</tr>
<tr>
<td>44</td>
<td>44 inch</td>
<td>500 chick</td>
<td>23.00</td>
</tr>
<tr>
<td>54</td>
<td>54 inch</td>
<td>1000 chick</td>
<td>28.00</td>
</tr>
<tr>
<td>Giant</td>
<td>54 inch</td>
<td>1000 chick</td>
<td>27.50</td>
</tr>
<tr>
<td>Giant</td>
<td>64 inch</td>
<td>1000 chick</td>
<td>29.50</td>
</tr>
</tbody>
</table>

For Oil Brooder Heaters and Chick Hovers see also page 91.
MASON JAR FOUNT
Will fit pint, quart, or half gallon Mason Jar. Convenient, cheap, sanitary. Can be used for feed as well as water. Both “Round” and “Star” shaped styles.
No. 0—Galvanized (postpaid), each................................. $0.10
No. 1—Enameled (postpaid), each................................. 10
No. 2—Star Shaped Tin (postpaid), each........................... 10
No. 133—Star Shaped (Made of Charcoal Tin) Feeding Buttermilk, Each............................... 15
No. 00—Round Shaped (Made of Charcoal Tin) Feeding Buttermilk, Each............................... 15

NON-FREEZE DRINKING FOUNTAINS
These fountains are constructed like Thermos Bottles, so thoroughly insulated that even at zero and below the water is protected from freezing and in hot weather the water remains cool for a long time.
Two-gallon size, shipping wt., 18 lbs.; each........................ $4.25
Three-gallon size, shipping wt., 23 lbs.; each.................... 5.00
Five-gallon size, shipping wt., 27 lbs.; each.................... 5.75

MOE’S ADJUSTABLE MILK FOUNTAIN No. 139
Magazine Feeder in Tin Plate. Adjustable up and down to feed slowly or rapidly, for any kind of milk or feed. Capacity about 2 quarts, has 12 feeder holes. Each, 85c; shipping weight 1½ lbs. each.

MOE’S IMPROVED WALL FOUNTAIN
Made of galvanized iron in three sizes; covered outlet keeps out dust and dirt.
No. 97—Capacity, 2 quarts; weight 3 lbs.; each................... $1.00
No. 98—Capacity, 1 gallon; weight, 4 lbs.; each................. 1.15
No. 99—Capacity, 2 gallons; weight, 5 lbs.; each.............. 1.50
No. 74—Capacity, 5 gallons; weight, 6 lbs.; each............. 2.00

MOE’S “TOP FILL” FOUNTAINS
Galvanized iron with double walls, keeps water cool in summer and retards freezing in winter. Fills from the top and feeds automatically. Easy to clean. Made in three sizes
No. 1—Capacity, 1 gallon; weight, 4 lbs.; each................. $1.75
No. 3—Capacity, 2 gallons; weight, 7 lbs.; each.............. 2.75
No. 4—Capacity, 4 gallons; weight, 9 lbs.; each.............. 3.25

ROYAL TWO-PIECE CLEAN OUT FOUNTAINS
These fountains are similar in appearance to improved Wall Founts but made from extra galvanized iron with double walls which keeps the water cool in summer and retards freezing in winter. Can either be set on the door or hung on the wall. Covered outlet keeps dust, dirt and litter from getting into the drinking pocket.
No. 70—1 gal. capacity; weight, 5 lbs.; each.................... $1.55
No. 71—2 gal. capacity; weight, 7 lbs.; each.................... 1.50

ROYAL WATER FOUNTAIN No. 33
A handy, practical and durable fountain of such capacity that it does not have to be filled so often. Strictly a grown fowl fountain, especially fine for ducks or geese; can be used either for water or feed; cannot be overturned. Easily filled and cleaned and carried by bail. Capacity, 3 gallons; shipping weight, 6 lbs.; each, $1.85.

ROYAL TWO-PIECE DUPLEX CLEAN OUT FOUNTAINS
Same construction as Two-piece Fountains except that they have two drinking pockets—one on each side of the fountain—and can be used to supply water to two pens if desired. No. 174—2 gal. capacity; weight, 6 lbs.; each......................... $1.85

P. W.’s WIZARD AUTOMATIC FOUNT No. 1
This fountain is regulated to feed buttermilk or water on the vacuum principle. It holds five gallons, and one filling supplies the needs of 500 chicks for 24 hours. 50 chicks drink conveniently at once. The drinking space is so constructed that it prevents the chicks from getting their feet or bodies wet, and permits no dirt or litter to befoul the water. The four inch opening in the bottom allows for thorough washing and cleansing and is closed by an air tight snap cap easily removed by hand. It is made of rust-proof copper-bearing metal. Weight 7 lbs; price, $10.00 each.

RELIABLE AUTOMATIC FLOAT VALVE
For regulating running water. One of the simplest and most efficient automatic water valves on the market. It is made entirely of brass and copper, makes it rust-proof and it will wear indefinitely. Capacity about one quart per minute. Can be attached to any city water line, farm water tank, supplying fresh water automatically. Price $10.00 each.
Founts and Feeders for Poultry

Royal Bottom Filled Fountain No. 103
An inexpensive fountain, made from heavy galvanized iron. Two piece cone shape, neatly striped with green around top. Easily filled and cleaned. To be used in connection with brooders in brooding larger lots of chicks. No. 103—3 gal. cap.; shipping weight, 3 lbs.; each $1.25.

Royal Charcoal Tin Large Buttermilk Fountains
Made from 135 lb. charcoal tin and have two large openings, one on each side, with a piece of spring steel attached to two pieces of metal in the inside; in order to keep the milk from running out when the fountain is filled, when the outer can is slipped down over the inner one, the pressure on these springs opens both holes and permits the feeding of all kinds of buttermilk. No reversing. Easily cleaned and filled. Two sizes, No. 301 Cap. 1 gal. Shipping wt. 9 lbs. Each $1.35
No. 303 Cap. 3 gal. Shipping wt. 11 lbs. Each 2.50

Royal Water Fountains
Same style as Royal No. 303, but made from heavy galvanized iron, double tank construction, of large capacity for grown fowls, No. 203 Cap. 3 gal. Wt. 11 lbs. Each $2.00
No. 205 Cap. 5 gal. Wt. 14 lbs. Each 3.00
No. 209 Cap. 8 gal. Wt. 17 lbs. Each 3.75

Royal Chick Hopper No. 56
Made of heavy galvanized prime sheets, has cone-shaped bottom to keep feed from clogging. Edges of holes are turned under which makes them smooth. Top easily removed for filling; bottom easily removed for cleaning. Height, 12 inches; diameter, 8 inches; diameter of pan, 12 1/4 inches. 22 feeding holes. Shipping weight 27 lbs., capacity 1 peck; each $1.50.

Royal Large Capacity Chick Hoppers
Made from heavy galvanized iron with slide top. Turned edges on all holes over feeding trough. Most economical of large chicken hoppers on the market.
No. 424—length 24"; holes 34; cap. 17 qts; wt. 11 lbs; each $2.75
No. 436—length 36"; holes 54; cap. 26 qts; wt. 16 lbs; each 3.25
No. 42—length 42"; holes 34; cap. 13 qts; wt. 7 lbs; each 1.40
No. 63—length 26"; holes 54; cap. 18 qts; wt. 9 lbs; each 2.00

Moe Chick Hopper
Same style as Royal Large Capacity Hoppers (see cut)
No. 140—length 21"; holes 32, cap. 10 qts; wt. 4 lbs; each $1.40
No. 141—length 35"; holes 54; cap. 17 qts; wt. 8 lbs; each 2.00

Buttermilk Feeder Trough No. 138
Feeding Troughs—made from charcoal tin plate, making them safe for feeding buttermilk. Sliding top. Easy to clean. No seams, rivets or solder. Clean sanitary feeders.
No. 137—length 10 lb.; 10 holes; wt. 1 lb; each..................$0.30
No. 138—length 20 lb.; 20 holes; wt. 1 1/2 lb; each.............45
No. 318—length 18"; 26 holes; wt. 1 1/2 lb; each..............45
No. 324—length 24 lb.; 34 holes; wt. 1 1/4 lb; each..........55

Royal Open Chick Troughs
For those who prefer the open type of trough, the new Royal of this pattern is very substantially made from prime sheets and is furnished with an adjustable revolving rod which can be moved up and down through the slots on the end by making a half turn of the rod before moving. No nuts to take off or delays in doing this. The rod can be adjusted to three different heights.
No. 120—length 12"; wt., 2/3 lbs, each..................$0.30
No. 150—length 18"; wt. 1 lb, each..........................40
No. 240—length 24"; wt. 2 lbs; each......................50

Royal Feed Troughs
Extra heavy slide top made from best quality prime galvanized sheets; no sharp or rough edges; well-made trough with slide top. Made in three sizes.
No. 212—length 12"; 16 holes; wt., 2/3 lb.; each...$0.35
No. 218—length 18"; 26 holes; wt. 1 lb.; each...........40
No. 224—length 24"; 34 holes; wt. 1 1/2 lbs; each....50

Royal Chick Feed Troughs
These Feed Troughs can be used for chicks or growing stock and are used abundantly under brooders for the feeding of buttermilk, starting feeds and chick feeds of any kind. Some users prefer these to the slide top trough; chicks can feed readily without having to attempt to get in the feeder.
No. 2—length 9"; 10 holes; wt., 1/4 lb; each...$0.20
No. 12—length 12"; 14 holes; wt., 5/8 lb; each....25
No. 15—length 18"; 22 holes; wt. 1 lb; each...........35
No. 24—length 24"; 24 holes; wt. 1 1/4 lb; each....45

Moe's Sanitary Feeding Troughs
Made of best quality iron, with removable tops. Edges turned under. Safe for chicks. Easy to fill and clean.
No. 58—12"; (Double): 10 holes; wt., 1 1/2 lbs.; each$0.35
No. 59—18"; (Double): 26 holes; wt., 2 lbs; each...55
No. 60—24"; (Double): 36 holes; wt. 3 lbs; each..65
Feeders and Racks for Poultry

D. RAY MASH HOPPER

The curved bottom of the Hopper keeps the feed within easy reach of the birds. The gradual enlargement from the top to base prevents clogging. The wire grid and the wires running from the flange through the wire grid prevent any chance of the fowls throwing out or wasting any of the feed. The sloping cover prevents the birds from roosting on the Hopper, and when cover is closed, it is rat and mouse proof. A trial will convince you that it is a Hopper of the greatest merit. Manufactured of heavy galvanized iron in three sizes.

No. 35—8 to 16 in. wide, wt. 6 lbs.; each...$1.50
No. 36—12 in. wide, wt. 6 lbs.; each...2.10
No. 37—16 in. wide, wt. 8 lbs.; each...4.50
No. 38—24 in. wide, wt. 12 lbs.; each...8.50
No. 39—35 in. wide, height on stand 34 in.; wt. 50 lbs.; cap. 100 lbs. 15.50

NEW ROYAL MASH HOPPERS

(For style see above cut of Dry Mash Hopper)

No. 81—Width 12 in.; cap. 14 qts.; wt. 6½ lbs.; each...$2.00
No. 82—Width 18 in.; cap. 22 qts.; wt. 8 lbs.; each...2.40
No. 83—Width 24 in.; cap. 32 qts.; wt. 9½ lbs.; each...3.00
No. 84—Width 36 in.; cap. 45 qts.; wt. 23 lbs.; each...5.50

MOE'S PIGEON FEEDER

This is designed top revent waste. Made of heavy galvanized iron, with feeding holes, properly spaced all around the hopper. The hopper has a slanting bottom leading through a large tube to the feeding bottom.

No. 105—Capacity 3 qts., weight 2 lbs., each...$1.10
No. 106—Capacity 6 qts., weight 4 lbs., each...1.60

MOE'S PIGEON NESTS

Made of galvanized, Diameter 8 in. with a small hole punched in center so it can be tacked to a board. Generally used in pairs.

No. 107—Pigeon Nests; weight 8 oz., each...15

ROYAL MAMMOTH MASH HOPPER

Large capacity hopper made from heavy galvanized iron of sufficient size to accommodate full hundred pound bag of mash. Hopper is larger and wider at the top, provided with side top which slides on heavy galvanized rollers. Stand is made from heavy galvanized angles and has wooden bars for fowls to rest on. Length of hopper, 36 in.; capacity, 100 pounds.

No. 85-Hopper and stand complete, packed one to crate; shipping weight, 50 pounds, each...$11.00

Lee's Poultry Lice Killers and Remedies

Lee's Germozone

For Poultry—Never fails to cure Bowel Complaints, Cholera, Roup, Colds, etc. Does the work it Suite. Price: Liquid, 4-oz. bottle, 40c; liquid, 12-oz. bottle, 75c; 32-oz., $1.50. We do not ship the liquid by mail. But furnish tablets at same price, postpaid.

Lee's White Diarrhoea Remedy—The best medicine for this dangerous disease of little chicks. 100 tablets 50c postpaid.

Lee's Egg Maker

Is not a tonic nor a medicine, but a meat food of great value. It will make hens lay, chicks grow, and keep them in a healthy condition. 2 lb. pkg., 50c; 5 lb. pkg., $1.00; 12 lb. pail, $2.25; 25 lb. pail, $4.25. Shipping weight 30 lbs; 100 lb. drum, $15.00.

Lee's Poultry Wormer

Heretofore, it has been necessary to give one remedy for tape worms, another remedy for round worms, and still another for pin worms, which is an impossible condition when not knowing what particular kinds of worms are affecting the chickens. Lee's Poultry Wormer is a compound of vermituges and germicides suitable for killing all three varieties of poultry worms. One dose is all that is necessary to thoroughly cleanse a bird of intestinal worms. 12 oz. bottle, sufficient for 24 to 36 chickens, $1.25; 32 oz. bottles, $2.95; one-half gallon bottle, $3.75; gallon bottle, for 375 to 500 chickens, $7.00.

Lee's Lice Killer

Destroys either by vapor or contact. No trouble to apply; just paint the roots or wall at night. Rids poultry and houses of all vermin; is prepared exclusively for this purpose, and there is nothing just as good. Price: Qt., 60c; ½-gal., 90c; 1-gal., $1.50. Shipping weight: Quarts, 4 lbs.; ½-gal., 8 lbs.; gallons, 15 lbs.

Lee's Louse Powder

For direct application to body of fowl. 1½ lb. can, 30c; mail weight, 2 pounds; 3 lb. package, 90c; mailing weight 4 pounds.

Flu-Koff Emulsion and Vapo Spray

Flu-Koff Emulsion is an internal medicine which is largely liberated through the lungs, has a soothing action on the mucous membrane, which allays the cough and reduces the temperature. Vapo-Spray is a combination of healing oils which are sprayed in the air of the Hog Sheds or Hen Houses, so that the fowls or pigs are forced to breathe the Vapors. These products also give excellent results in the treatment of colds and Roup in the early stages. Prices: Flu-Koff Emulsion, 12-oz. bottle, $1.25; 32 oz. bottle, $2.25; one-half gallon bottle, $3.75; gallon bottle, $7.00. Vapo-Spray, one-half gallon cans, $1.25; gallon cans, $2.25; 5 gallon cans, $9.00.
Poultry Foods

Alfalfa Meal—In original sacks of 100 lbs. at $1.00 per lb. It is indispensable for successful raising of broilers; for young laying hens; for growing chicks; and for turkeys. Alfalfa is a great milk and protein food. To poultrymen it is likewise of value in keeping fowls in good health. Prices fluctuate according to quantity. Lb. $1.00; 25 lbs. $2.75; 50 lbs. $4.00; Market Price.

Barnes’ Worm Emulsion—This will allay the irritated condition of the intestinal tract, kill worms, and also serve as a preventative. 5 gal. ln. at $15.00; 100 lbs. $20.00. Market Price.

P.-W.’s Developing Food and Pigeons’ Mixture—Just the food for monkeys when they are two months old. Adult monkeys have grown too large to be fed P.-W.’s Chick Manna. 4 lbs. 25c; 25 lbs. $1.25; 100 lbs. $1.00. Market Price.

P.-W.’s Chick Manna (Ideal Scratch Food)—Conceived by all users to be the leading balanced ration of pure grains, seeds, etc. on the market today. It is truly “Health Insurance” to the baby chicks. This splendid product was made according to the best formula that science and experience has discovered to date. Scattered about a pint of P.-W.’s Chick Manna on the floor among an inch or two of alfalfa meal for 50 chicks. Only feed as much at a time as they eat up in 15 minutes. Do not over-feed. 25c; 25 lbs. $1.25; 100 lbs. Market Price.

Full-O-Pep and Pratt’s Baby Chick Food are excellent chick starters and should be fed the first few days.

Oil Cake—Is a great milk and protein food. To poultrymen it is likewise of value in keeping fowls in good health. Prices fluctuate according to quantity. Lb. $1.00; 25 lbs. $2.75; 50 lbs. $4.00; Market Price.

Mammoth Russian Sunflower Seed—Splendid for parrots and poultry. Lb. 25c; 25 lbs. 50c; 100 lbs. $2.50. Market Price.

Meat Scrap—We supply Golden Brand, fresh, clean and high protein content. It is hard to estimate the great value of meat scraps for growing chicks or laying hens. 3 lbs. 25c; 25 lbs. $1.50; 50 lbs. $2.50. Market Price.

P.-W.’s Sure Egg Mash—This splendid well-balanced mash is mixed according to latest scientific formula. It contains in proper proportion all the essential elements for egg production. The usual merit of P.-W.’s Sure Egg Mash is best evidenced by its extended use since introduction. Almost without exception wherever tried permanent use is followed. You will find the savings in your order. Prices—Lb. 25c; 25 lbs. 50c; 50 lbs. $1.50. Write for quantity prices.

Dried Skim Milk—This is fast becoming more popular. It is ninety per cent digestible, increases palatability of any feed, aids growth of baby chicks, stimulates egg production, and is valuable for feeding poultry. It is sold in 25 lb. sacks at $S.00. The carbohydrates of this product exist in the form of easily assimilated lactose or milk sugar and the ash constituents are the minerals of milk; the value of which in the feeding of young poultry is well recognized. Lb. 25c; 25 lbs. $3.50; 50 lbs. $6.50. Write for quantity prices.

Full-O-Pep Egg Mash—Contains a large amount of P.-W.’s Egg Meal from the finest ingredient—finest oats, as well as Hominy Feed, Wheat Bran, Wheat Middlings, Ground Puffed Wheat, Fish Meal, Bone Meal, Cod Liver Oil, and Alfalfa Meal that we can buy. Now Cod Liver Meal, especially produced for us, has been incorporated in this feed. To these ingredients have been added the minerals and other materials that are necessary to balance the feed. Be sure to use it according to instructions. 10 lbs. 70c; 25 lbs. $1.25; 50 lbs. $2.25.

Full-O-Pep Fattening Mash—Same Price as Full-O-Pep Egg Mash.

Full-O-Pep Chick Starter—contains a large quantity of P.-W.’s Egg Meal from the finest ingredient—finest oats, as well as Hominy Feed, Wheat Bran, Wheat Middlings, Ground Puffed Wheat, Fish Meal, Bone Meal, Cod Liver Oil, and Alfalfa Meal that are necessary to provide the proper variety of proteins, minerals, carbohydrates, and vitamins that are necessary for good growth and rapid development. 25 lbs. 75c; 25 lbs. $1.65; 50 lbs. $3.00; 100 lbs. Market Price.

Pratt’s Baby Chick Mash—See page 97. Same price as Full-O-Pep Chick Starter.

Cod Liver Oil—This contains certain necessary life-giving elements, a very important one of which is Vitamin D. Without which the body cannot utilize minerals in the feed for its proper function. In the winter time, the chicks and young birds are deprived of sunshine; they are particularly short in this vitamin and Cod Liver Oil supplies the much needed Vitamin D. For those who are feeding this oil less, better egg shells and additional strength and vigor Adult birds in a year’s time have increased 4 lbs. per 100 birds. Keep oil in tight container in a cool, dark place. Prices: Gallon, $1.25; 5 gallons, $7.50; 10 gallon barrel, $12.50.

EPSON SALTS—Used extensively as a poultry medicament. Lb. 10c; 10 lbs. 80c; 100 lbs. $7.50.
Order Sheet for Shrubs and Trees Only

PORTER-WALTON CO.
SALT LAKE CITY, UTAH

Received........................................... 192...

Amt. $.............................................

By ..................................................

THE AMOUNT ENCLOSED

Money Order, $.................................

Check - ...........................................

Stamps, - .........................................

Cash, - ............................................

Date.............................................. 192.... Send By........................................

To (Name) ..........................................................................

P. O. Box, Street ..............................................................
or Rural Delivery ..................................................................

Post Office ........................................................................

County ; State.....................................................................

(Only if different from P. O.)

Station or Express Office..............................................

Date........................................... 192.... Send By........................................

ABOUT POSTAGE

If you wish order sent by Parcel Post see table on back
of this sheet to ascertain amount to remit for Postage.
We pay postage on Garden and Flower Seeds unless other-
wise specified.

WARRANTY AND RESPONSIBILITY FOR CROK

What is stated on Catalog regarding this is always a
condition of the sale of anything in the Seed and Nursery
line.

<table>
<thead>
<tr>
<th>QUANTITY</th>
<th>SEEDS, BULBS, POULTRY SUPPLIES AND SUNDRIES</th>
<th>PRICE</th>
<th>AMOUNT</th>
</tr>
</thead>
</table>

(Over) Amount carried forward

EXTRA ORDER SHEETS FREE—ASK FOR THEM.
<table>
<thead>
<tr>
<th>V.</th>
<th>QUANTITY</th>
<th>SHRUBS AND TREES</th>
<th>PRICE</th>
<th>AMOUNT</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Amount brought forward</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

If by mail remit Postage on all Items not postpaid. Amount for Postage

Total Amount Sent

**Parcel Post Rules, Etc.**

<table>
<thead>
<tr>
<th>Zone</th>
<th>Each lb.</th>
<th>First lb.</th>
<th>Additional Zone</th>
<th>Each lb.</th>
<th>First lb.</th>
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</thead>
<tbody>
<tr>
<td>1st—Within 50 miles</td>
<td>7c</td>
<td>7c</td>
<td>6th—Within 600 to 1,000 miles</td>
<td>10c</td>
<td>6c</td>
</tr>
<tr>
<td>2nd—Within 50 to 150 miles</td>
<td>7c</td>
<td>7c</td>
<td>6th—Within 1,000 to 1,400 miles</td>
<td>11c</td>
<td>8c</td>
</tr>
<tr>
<td>3rd—Within 150 to 300 miles</td>
<td>8c</td>
<td>8c</td>
<td>7th—Within 1,400 to 1,700 miles</td>
<td>13c</td>
<td>10c</td>
</tr>
<tr>
<td>4th—Within 300 to 500 miles</td>
<td>9c</td>
<td>9c</td>
<td>8th—All over 1,800 miles</td>
<td>14c</td>
<td>12c</td>
</tr>
</tbody>
</table>

The Maximum Weight allowable in local and to the First, Second and Third zones is 70 pounds, and to all other zones is 60 pounds.

The Size of the Parcel must not exceed 34 inches for combined length and girth.

Money should always accompany order. On small amounts we accept 2-cent postage stamps the same as cash. Goods wanted C. O. D. must have at least 25 per cent of the amount accompany the order. Patrons signing orders are requested to use prefix, Mr., Mrs. or Miss. Married ladies please invariably use husband's initials.

The following are persons, I think, will likely purchase something in your line this year and would appreciate your Catalog.

<table>
<thead>
<tr>
<th>ADDRESS</th>
<th>NAMES</th>
</tr>
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<tbody>
<tr>
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<td></td>
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<td></td>
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</tbody>
</table>

We will include some extra Seeds or Bulbs for above Courtesy.

**SHIPPING MEMORANDUM**

<table>
<thead>
<tr>
<th>No. Pkgs. Mail</th>
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Shipped Via. Date. Shipping Clerk
PORTER-WALTON CO., Salt Lake City, Utah.

B A B Y  F O O D  F O R  B A B Y  C H I C K S

53 YEARS OF SERVICE

Pratts
Buttermilk Baby Chick Food

A dozen years ago old chick raising methods were revolutionized by the introduction of

Pratts

Buttermilk Baby Chick Food

the original "baby food for baby chicks." As a result it is today possible to raise every liveable chick by using this splendid feed for the first three or four weeks of a chick's life. That is the critical period when the use of Pratts Buttermilk Baby Chick Food will more than pay for itself in the extra chicks you save.

Pratts Buttermilk Baby Chick Food is made of the most carefully selected, high grade ingredients skillfully prepared so that it is mechanically predigested. It furnishes everything needed for health, growth and a sturdy foundation. Leg weakness, diarrhea and other chick troubles are unknown where Pratts is used.

Don't waste time, chicks or money on imitations of Pratts. We guarantee it will give complete satisfaction. In 2 1/2 and 5 1/2 lb. pkgs. and in 10, 14, 25, 50 and 100 lb. bags.

Pratts

Buttermilk Baby Chick Food

"Life Insurance for Chicks"
**PRATTS PREPARATIONS MEAN HEALTH**

**For Health and Eggs**

**Pratts, Poultry Regulator**

has no equal. It is the world's original poultry regulator and has been the standard for over 50 years. Not a dope or stimulant but a natural tonic supplying numerous health necessities required by heavy laying hens and breeding stock. Tones up the system, regulates bowels, aids digestion, sharpens appetite, wards off disease and increases vitality. Added to any mash it makes more eggs. Use it the year round and make bigger profits. Guaranteed to give satisfaction or your money back. 30c., 65c., $1.65 packages; 25-lb. bag $3.00; 25-lb. pail $3.50; 100-lb bag $10.50. Add extra for postage.

**Pratts Condition Tablets**

Not only for show birds but for all fowls that are out of condition and need toning up. Valuable for treating individual birds that are "off their feed." Efficient in treating colds, liver and digestive troubles. Always keep a box at hand. 30c. and 60c. per pkg.

**Pratts Gape Compound**

Made for external use. Effective and a safe and quick remedy for gapes in chicks. Use it as a preventive and avoid heavy losses from this trouble. Fully guaranteed. 30c. and 60c. pkgs. post paid.

**Pratts Powdered Lice Killer**

A powerful and economical lice killer that quickly rids your fowls of these profit eating pests. Use it on the poultry, in the nests and dust boxes, etc. Also used to free horses, cows, sheep, dogs, cats, etc., from lice, fleas and other vermin. Easy, safe and effective to the highest degree.

In sifter top cans at 30c. weight 1-lb. and 60c. weight 2½-lbs. Add extra for postage.

**Here's What Pratts Guarantee Means**

Pratts are the oldest and largest manufacturers of stock and poultry preparations in America. They have had over half a century's experience and their remedies have been in successful world-wide use on the largest and smallest flocks and herds. Therefore every Pratt Remedy is guaranteed to give satisfaction or your money will be refunded.

**Pratts Special Compound**

For all sorts of digestive troubles commonly known as "cholera," such as indigestion, diarrhea, sour crop, dysentery, etc. this remedy offers a safe, sure and quick relief. Can be used as a preventive as well as remedy. Always have a package in your poultry medicine chest. 30c. and 60c. per pkg. Post Paid.
POULTRY HEALTH MEANS PROFIT

Cleanliness Means Poultry Health

Pratts. Disinfectant

Insures poultry health. A cheap, powerful, non-poisonous disinfectant. Four times as effective as carbolic acid. A gallon makes a barrel of disinfecting solution. Use it freely. Spray it about the poultry houses, roosts, dropping boards, nests and wherever a strong disinfectant is needed. Acts as a deodorizer, germicide, and liquid lice killer. Effective in the treatment of roup, colds and contagious diseases. Quarts 65c., half-gallon, $1.10.; gallon, $1.75, weight 10-lbs. Add extra for postage if by mail.

Pratts Roup Remedy

(Tabets or Powder)

Use it as a treatment or preventive. An easy powerful remedy with a long record of success in the treatment of colds, roup, diphtheria, catarrh, etc. Keep a box always at hand, guaranteed to give satisfaction. 30c.; 60c. and $1.20 packages post paid.

Pratts Diarrhea Tablets For Chicks

Use this in the chicks drinking water for the first ten days and you will avoid losses from white diarrheaa and like bowel troubles. This is "life insurance," for chicks that will save you dollars. Very easy to use and fully guaranteed. 30c; 60c. and $1.20 pkgs. Post paid.

Pratts Poultry Worm Powder

Rids poultry of round, tape and thread worms, is safe, sure, easy to use and costs only a little over one cent to treat a fowl. 60c. and $1.20 Pkgs.

Pratts Red Mite Special

is a powerful preparation put up specially to rid flocks of red mites, ticks, blue bugs, fleas and like blood sucking vermin. It should be sprayed or painted on the roosts, dropping boards, nest boxes, and in all cracks. One application is effective for months. Many times more powerful and effective than ordinary liquid lice killers. 70c. a quart; $1.20 a 1/2 gallon; $1.85 a gallon. Add extra for postage.

Pratts Sore Head Chicken Pox Remedy

A safe, sure and powerful remedy that will prevent as well as cure this disease. Tones up the system, heals the sores and prevents spread of the disease. Easy to use, you should always keep a package in your pocket so you can treat your hens promptly. It may mean saving your flock. 30c. and 70c. pkgs. Post Paid.

Pratts Scaly Leg Ointment

A simple, strong, guaranteed ointment, easy to apply, that will quickly cure the most stubborn case of scaly leg. Don't have lame birds that don't lay; use this ointment and have a healthy flock. 30c. & 75c. a box p. p.
HANDY CHART OF POULTRY DISEASES

BRAIN—Congestion of
Dizziness
Staggering
Twisting head
Use Pratts Poultry Regulator.

BRONCHITIS
Difficult breathing
Whistling or rattling in throat
Use Pratts Bronchitis Tablets.

CANKER
Cheesy patches in throat
Use Pratts Poultry Disinfectant.

CHICKEN POX or “SOREHEAD”
Scabs or sores on head and comb
Use Pratts Sore-head Chicken Pox Preparation.

“CHOLERA”
A term applied to bowel and digestive troubles
Use Pratts Special Compound.

Colds
Watery or swollen eyes
Nasal discharge
Sneezing
Use Pratts Roup Tablets.

DEPLUMING MITE
Patches bare of feathers
Use Pratts Lice Salve.

DIPHTHERIA
Similar to roup
Gray patches in throat
Fever
Use Roup Tablets.

DIARRHEA
Use Pratts Special Compound.

GAPES (in chicks)
Gasp ing, choking, coughing
Red, thread-like worms in windpipe
Use Pratts Gape Compound.

INDIGESTION
Watering at mouth
Darkened comb
Use Pratts Special Compound.

LEG WEAKNESS (in chicks)
Too high brooder-heat
Improper food
Use Pratts Baby Chick Food.

LIVER DISEASES
Listlessness
Darkened comb
Use Pratts Poultry Regulator

“PASTING UP” (in chicks)
Chilling
Improper feeding
Use Pratts Baby Chick Food.

“PIP”
Cough
Hardened tongue
Use Pratts Condition Tablets.

RHEUMATISM
Lameness
Swollen joints
Use Pratts Liniment.

ROUP
Nasal discharge
Foul odor
Swollen eyes and face
Use Pratts Roup Tablets.

SCALY LEGS
Scaly, rough legs
Use Pratts “Scaly” Leg Ointment.

VENT GLEET
Sore vent
Offensive discharge
Use Pratts Poultry Disinfectant.

WHITE DIARRHEA (in chicks)
Sleepy, droopy
Short backs, long heads
Use Pratts White Diarrhea Tablets.

LICE
Restless, picking
Shaking heads
Unthriftiness
Use Pratts Powdered Lice Killer or Pratts Lice Ointment.

RED MITES
Pale combs, weakness
Loss of weight
Use Pratts Red Mite Special.
P.-W.'s BABY CHICKS

Baby chicks are a great specialty with us. We recommend the raising of our day-old-chicks as the most satisfactory way of establishing a new flock of poultry, or of renewing an old flock, for utility purposes. It is really less expensive to buy chicks than to hatch them in small lots, and you are much more certain of having just the number you want, the expense of maintaining male birds which lower the value of the eggs for table use, and the expense of the incubator, or loss of body weight and time off from laying of the setting hen.

The regular utility grade of Baby Chicks that we offer are the product of free range flocks, pure bred, of standard type, carefully culled, and selected for their performance as layers. These flocks have been developed and maintained for years especially for the production of our Baby Chicks. They are the very highest quality of flock matings.

We list below the most popular breeds but are in touch with sources of supply of many other strains, so if you do not find what you want in the list below write us, and without doubt, we can supply you.

Terms on Chicks 25% deposit; Ducks, Turkeys and Goslings 50% deposit with order, balance C. O. D. Shipping charges prepaid. Live Delivery Guaranteed. We ship orders for 100 chicks and over direct from hatchery; time required for delivery three weeks to one month after order is received.

Prices below are in effect at the season's opening, subject to change without notice. Write for prices on larger numbers than below quoted.

### DAY OLD BABY CHICKS (Utility Grade)

<table>
<thead>
<tr>
<th>BREED</th>
<th>25</th>
<th>50</th>
<th>100</th>
<th>500</th>
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<tbody>
<tr>
<td>White Leghorns, Utility Grade</td>
<td>$1.25</td>
<td>$7.50</td>
<td>$13.00</td>
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<tr>
<td>Anconas, Utility Grade</td>
<td>4.00</td>
<td>7.50</td>
<td>13.00</td>
<td>64.00</td>
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<tr>
<td>Brown Leghorns, Utility Grade</td>
<td>4.50</td>
<td>8.00</td>
<td>14.00</td>
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<td>Single &amp; Rose Comb Reds, Utility Grade</td>
<td>4.75</td>
<td>8.50</td>
<td>15.00</td>
<td>72.50</td>
<td>140.00</td>
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<tr>
<td>White, Buff &amp; Barred Rocks, Utility Grade</td>
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<td>8.50</td>
<td>15.00</td>
<td>72.50</td>
<td>140.00</td>
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<td>Light Brahmas, Utility Grade</td>
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<td>11.00</td>
<td>20.00</td>
<td>97.50</td>
<td>195.00</td>
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<tr>
<td>Single &amp; Rose Comb Reds, Utility Grade</td>
<td>4.75</td>
<td>8.50</td>
<td>15.00</td>
<td>72.50</td>
<td>140.00</td>
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<tr>
<td>White Wyandottes, Utility Grade</td>
<td>5.00</td>
<td>9.00</td>
<td>16.00</td>
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<td>Jersey Black Giants, Utility Grade</td>
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<td>Heavy Mixed Breeds, Utility Grade</td>
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<tr>
<td>Light Mixed Breeds, Utility Grade</td>
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<td>6.50</td>
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<td>Black Minorcas, Utility Grade</td>
<td>5.00</td>
<td>9.50</td>
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### DAY OLD BABY CHICKS (Exhibition Grade)

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<td>White Leghorns, Exhibition Grade</td>
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<td>Single &amp; Rose Comb Reds, Exhibition Grade</td>
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<td>White and Barred Rocks, Exhibition Grade</td>
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<tr>
<td>Buff and White Orpingtons, Exhibition Grade</td>
<td>6.25</td>
<td>12.00</td>
<td>21.00</td>
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<td>White Wyandottes, Exhibition Grade</td>
<td>6.00</td>
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<td>S. C. Anconas, Exhibition Grade</td>
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### DAY OLD DUCKS, GEESE, TURKEYS

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<tr>
<td>Mammoth Bronze Turkeys</td>
<td>18.00</td>
<td>35.00</td>
<td>70.00</td>
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<tr>
<td>Toulouse Goslings</td>
<td>35.00</td>
<td>67.50</td>
<td>135.00</td>
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**PLEASE NOTE!**

We Guarantee the full number of BABY CHICKS ordered to be alive, free from cripples, and true to name upon delivery to you by PARCEL POST. Any error or loss must be reported at once and all Valid Claims will be settled either by free replacement or a refund at our option.

Refer to pages 80 to 85 for Chick Feeds, Feeders, Drink Founts and Remedies. We invite correspondence on all kinds of Grains, Seeds, Feeds, etc., for Poultry and Pet Stock, as prices fluctuate greatly. We handle the following in large quantities and can always give attractive prices: Feed Wheat, Kaffir Corn; Whole and Ground Feed Corn, Rolled Oats, Feeding Barley, Bran, White Shorts, Millet, Sunflower Seed and Field Peas. Weight, Quantity and Prompt Service Guaranteed. Phone or write us.

**LET US HAVE YOUR NAME FOR OUR "POULTRY LIST SPECIALS"**

Special quotations are made at intervals during the year whenever market fluctuations justify. Several hundred of our Poultry Supply Customers are now on this mailing list. Upon request we shall be glad to add your name so that you may receive the benefit of this special information.

**GARDEN TALKS BY RADIO**

On Tuesday evenings, at 7:30 o'clock Mountain Time, during the months of February, March and April, The Porter-Walton Company will Broadcast Timely and Instructive Garden Topics. There will be no offensive advertising propaganda in these talks, it will be worth your while to "tune in" on KSL Station at Salt Lake.
P-W's Cover Collection of Delphinium Hybrids
One packet each of six mammoth novel varieties for $5.00
All varieties mixed packet $1.00 postpaid

Porter-Walton Company
Salt Lake City, Utah.
Every seed a sturdy plant