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OUR  
MOTTO  
"HIGHEST  
QUALITY"



New Pea  
Routledge Prize

*See Our Special Offer  
of New Peas Page 20.*

**Routledge**  
**SEED & FLORAL CO**

169 171 2<sup>nd</sup> ST PORTLAND, ORE.

## READ ALL ON THIS PAGE CAREFULLY

It's New Copy and Means Much to Us and More to You.

ON CASH ORDERS WE PREPAY CHARGES IN THE STATES WEST OF THE ROCKY MOUNTAINS ONLY. READ THIS PAGE CAREFULLY.

Note.—We RESERVE THE RIGHT to send part or all of any order, on which we PREPAY CHARGES, by mail, express or freight, i. e., whichever way we find is best and cheapest.

### ABOUT PREPAYING CHARGES

#### By Parcel Post—Prepaid

On cash orders only, WE WILL, at prices printed in this catalog, SEND BY PREPAID PARCEL POST right to your gate ALL SEEDS by the Packet, Oz., or single Pounds, ALL PLANTS (potted plants excepted), BULBS, ROOTS, ROSES (tree roses excepted), FRUIT BUSHES and VINES (fruit trees excepted), SMALL SHRUBS and VINES (balled Evergreens like Spruce, Holly, Rhododendrons etc., excepted).

**NOTE** Plants in pots, large branching shrubs, Evergreens of all kinds, that must be balled in earth, Tree Roses, Fruit and Shade Trees, over one year old and taller than three feet can not be sent by Parcel Post.

ON ALL OTHER ITEMS, and SEEDS in 5 to 50 LB. LOTS. YOU MUST SEND POSTAGE EXTRA in addition to price IF WANTED BY PARCEL POST. We give the packed, parcel post weight for this purpose on all miscellaneous merchandise that is mailable. For parcel post rates see top of page 1.

#### By Express or Freight Prepaid

On cash orders only, we will, at prices printed in this catalog, send by express or freight, charges prepaid, ALL STOCKS designated under prepaid parcel post above and (note this carefully) if your order amounts to \$5.00 OR OVER, WE WILL ALLOW YOU TO INCLUDE Ferns, Palms or Plants in pots, Evergreens and Nursery Stock of all kinds, any size or age.

#### But Consider This— If You Pay Charges

If your order is largely made up of select two or three-year-old branched Fruit or Shade Trees or Specimen Plants of Evergreens, or Shrubs for IMMEDIATE EFFECT, such as we use for our local city trade and YOU ARE WILLING TO PAY THE FREIGHT CHARGES yourself, to get EXTRA VALUE in the LARGEST and CHOICEST STOCK, instruct us to this effect, when you order, and we will ship CHARGES COLLECT and give you the best values obtainable—REMEMBER, WE EMPLOY NO AGENTS AND YOU WILL GET THE BENEFIT OF THE AGENT'S COMMISSION.

#### Read This Sure

If your order contains mostly stocks on which we prepay charges, and you wish to include BULK SEEDS, FERTILIZERS, POULTRY SUPPLIES, FOODS or MISCELLANEOUS STOCKS, on which we DO NOT PREPAY, include in your remittance enough extra to cover charges on THOSE ITEMS and we will PREPAY CHARGES ON THE WHOLE SHIPMENT—should you send too much, we will return it.

**OUR GUARANTEE:** We guarantee all Seed, Plants, Bulbs and Nursery Stock true to name and will replace free, (with stock of the original value only) any that may through some unavoidable error, prove otherwise.

We guarantee all stocks to reach our customer in first-class, live, growing condition but further than this, we give no warranty, express or implied, that it will grow and thrive. Any fair-minded person knows that its success thereafter, is dependent on soil, weather, care and other conditions over which we have no control. All orders filled subject to above conditions only.

ROUTLEDGE SEED & FLORAL COMPANY.

FOR PARCEL POST RATES, ETC., SEE TOP OF PAGE 1.



Quantity.	NAMES OR ARTICLES WANTED.	Amount.
	Amount Brought Forward	
	Total Amount of Order	

**SPECIAL NOTICE.**—We shall esteem it a great favor if you will give us in the spaces below the names and addresses of some of your neighbors or any acquaintances in the West whom you think would be interested in this catalog. For your kindness, we will put in your order a premium plant, bulb, or seeds, free of charge.

NAME	POST OFFICE	E. F. D.	STATE

**NOTE**—Before you send this order read carefully what we have to say about parcel post and transportation charges on inside of front and back cover.

# THANKS TO UNCLE SAM

We are now permitted to send Shrubs, Plants, and Bulbs through the mail at the new parcel post rates, therefore, we have decided to do away with all agents and traveling salesmen and do a direct mail order business, with our customers. This enables us to give you direct and personal attention, quick service and lower prices. You get the benefit of the agent's commission.

## New Parcel Post Rates for 1915

**SIZE AND WEIGHT.**—A Parcel Post package can weigh up to fifty pounds, for the first and second zones, and up to twenty pounds for the third to eighth zone, but **MUST NOT** exceed in size 72 inches in length and girth combined.

When you order from Portland, look for the zone that corresponds to the number of miles you are away, add up total weight of your order, consult the table below and add postage. The rate increases with the distance; see table below.

First zone up to.....	50 miles, first lb. 5c; each additional lb. or fraction 1c
Second zone.....	50 to 150 miles, first lb. 5c; each additional lb. or fraction 1c
Third zone.....	150 to 300 miles, first lb. 6c; each additional lb. or fraction 2c
Fourth zone.....	300 to 600 miles, first lb. 7c; each additional lb. or fraction 4c
Fifth zone.....	600 to 1000 miles, first lb. 8c; each additional lb. or fraction 6c
Sixth zone.....	1000 to 1400 miles, first lb. 9c; each additional lb. or fraction 8c
Seventh zone.....	1400 to 1800 miles, first lb. 11c; each additional lb. or fraction 10c
Eighth zone.....	all over 1800 miles, first lb. 12c; each additional lb. or fraction 12c

**ALASKA, MEXICO, CUBA, HAWAII, PANAMA** and the **PHILIPPINES**, take the 8th zone rate with a **WEIGHT LIMIT OF 20 LBS.**

**CANADA** takes the **EIGHTH** zone rate with a **WEIGHT LIMIT OF 4 LBS 6 OZS.**

**ALL MISCELLANEOUS MERCHANDISE** offered in this catalog **THAT CAN BE SENT BY PARCEL POST** is marked **P. P.** and the **PACKED WEIGHT** is given so that extra money for **POSTAGE** can be remitted according to the table above, **OTHERWISE** we will send by freight or express **AT YOUR EXPENSE.**

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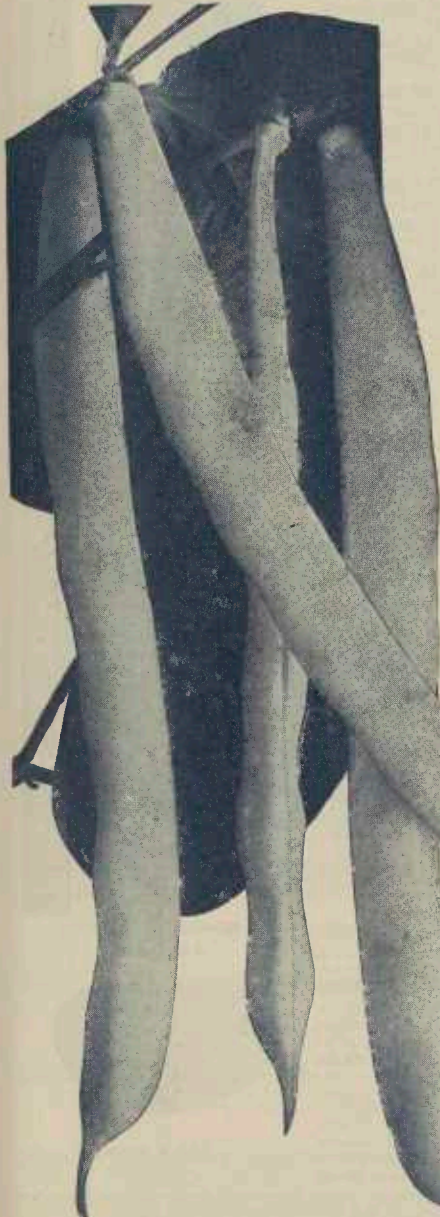
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**ROUTLEDGE**  
SEED &  
FLORAL CO'S

Highest Quality

**VEGETABLE SEEDS**

We catalog only the very best varieties of both the newer and the older strains, those that are especially adapted to the peculiar conditions on the Pacific Coast.



Wardwell's Kidney Wax Beans.

**ARTICHOKE**

**LARGE GREEN GLOBE.**—The well-known French vegetable; the undeveloped flower heads, when properly prepared, make a most delicious dish.

Pkt. 10c; oz. 35c; 4-oz. \$1.00  
White French.—Grown for stock. See page 34.

**ASPARAGUS**

You save time by planting Asparagus Roots. (See page 87).

**COLUMBIAN MAMMOTH WHITE.**—Gives immense yield of large, clear, white shoots; very tender and of excellent flavor.

Pkt. 5c; oz. 10c; 4-oz. 25c; lb. 75c  
**PALMETTO.**—Early, prolific and uniformly large; light green.

Pkt. 5c; oz. 10c; 4-oz. 25c; lb. 70c  
**CONOVER'S COLOSSAL.**—A good, standard sort of approved quality.

Pkt. 5c; oz. 10c; 4-oz. 25c; lb. 60c

**BEANS**

**Dwarf or Bush—Yellow Podded**

Single pound prices are prepaid. See notes inside front cover.

**DAVIS KIDNEY WAX.**—The most hardy and productive wax bean. The pods are long, white, straight, crisp and tender. The vine is rustless and very vigorous, bearing the pods in clusters. For canning this is unexcelled on account of purity of the pod and bean. It is a remarkably good variety for shipping; seed white, and on this account is desirable for a shelled bean in winter.

Large pkt. 10c; lb. 25c; 10 lbs. \$2.25

**WARDWELL'S KIDNEY WAX.**—A hardy, strong-growing vine; handsome, long podded variety. A few days later than Golden Wax; pods long, golden-yellow, brittle and entirely stringless; seed white, with dark markings about the eye. Market gardeners find this

bean one of the most profitable.

Large pkt. 10c; lb. 25c; 10 lbs. \$2.00

**IMPROVED GOLDEN WAX.**

—One of the most popular varieties in cultivation. Pods are long, nearly straight, broad and flat, and golden yellow; seed white, more or less covered with two shades of purplish red.

Large pkt. 10c; lb. 25c; 10 lbs. \$2.00

**PROLIFIC BLACK WAX.**

—An improvement on the old Black Wax or Butter Bean. Very vigorous and prolific; pods fairly long, golden-yellow, very brittle, and stringless; seed black.

Large pkt. 10c; lb. 25c; 10 lbs. \$2.00

Market Gardeners who buy Beans or any other Seeds in quantity should write for special prices, stating kind and quantity wanted.

**INCREASE** Your Bean Crop and **IMPROVE** your soil by using Mulford's "NITRO-GERM."  
(Read about it, page 29).



## BEANS—Continued

### Dwarf or Bush—Green Podded Kinds

**Single pound prices only are prepaid. See note inside front cover**  
**STRINGLESS GREEN POD.**—The finest green pod, stringless bean. The earliest and hardest of all green-podded sorts. The plants are very productive, bearing profusely the beautiful green pods, which are perfectly round, long, almost straight, very tender, brittle, of the finest flavor; very fleshy and entirely stringless.

Large pkt. 10c; lb. 25c; 10 lbs. \$2.00

**DWARF HORTICULTURAL.**—One of the best varieties for shell beans. Pods very handsome, being yellowish and thickly splashed with bright crimson. Very productive.

Large pkt. 10c; lb. 20c; 10 lbs. \$1.40

**LONG YELLOW SIX WEEKS.**—A very productive, extra early variety with long, straight, thick pods.

Large pkt. 10c; lb. 20c; 10 lbs. \$1.75

**Extra Early Refugee.**—A very early medium-sized green podded bean of excellent quality. Large pkt. 10c; lb. 20c; 10 lbs. \$1.75

**Broad Windsor.**—The largest and best of this class. Broad, flat beans of delicious flavor

Large pkt. 10c; lb. 20c; 10 lbs. \$1.75

**LADY WASHINGTON (For Dry Beans).**—A great improvement over the old 'Navy,' being much earlier, a little larger, and a very heavy yielder, especially adapted to Western conditions. The pods all ripen together and early enough to harvest before winter rains.

Large pkt. 10c; lb. 15c; 10 lbs. \$1.00

**Castor Bean.**—Used for medicinal purposes and by some claimed to keep moles away.

Large pkt. 10c; lb. 40c

### Climbing or Pole Beans

**IMPROVED KENTUCKY WONDER (Asparagus).**

A very popular variety; often sold as asparagus. By far the best green podded pole variety. Pods green, very long, round and perfectly stringless. Enormously productive and earliest. Unsurpassed for the table, being very tender and of delicious flavor.

Large pkt. 10c; lb. 20c; 10 lbs. \$1.75

**WORCESTER POLE.**—The finest Pole Shell Bean in cultivation and on account of its wonderful productiveness and superior quality takes first rank as a Pole Shell Bean. The strain we offer is an especially fine one. The long, thick pods are brilliantly colored with crimson carmine, and are borne in clusters. Unequaled for tenderness and delicious flavor.

Large pkt. 10c; lb. 20c; 10 lbs. \$1.75

**EARLY GOLDEN CLUSTER WAX.**—A very popular, early and fine variety; pods golden yellow, long, wide and flat, borne in clusters, of fine quality and remain in condition to use for a long time; seed flat and dull white.

Large pkt. 10c; lb. 25c; 10 lbs. \$2.00

**Lazy Wife.**—Produces heavy crops of broad, flat, fleshy, tender, stringless, green pods. Fine snap beans, rich buttery flavor.

Large pkt. 10c; lb. 25c; 10 lbs. \$2.00

**Scarlet Runner.**—Grown extensively for ornamental purposes, as flowers are a most brilliant scarlet and borne profusely; beans are broad and flat, and of fine flavor when cooked.

Large pkt. 10c; lb. 25c

**Indian Chief (Pole Black Wax).**—White, fleshy pods, not very long, and excellent as snap beans; very tender and perfectly stringless. The best of the Pole Butter Beans.

Large pkt. 10c; lb. 20c; 10 lbs. \$1.75

### Pole Lima Beans

**KING OF THE GARDEN LIMA.**—The largest podded variety and very productive vines; very vigorous, often producing pods six to seven inches long. Beans large and of fine flavor.

Large pkt. 10c; lb. 25c; 10 lbs. \$2.00

**EARLY LEVIATHAN.**—One of the newer varieties and the very best pole variety in cultivation; pods long and borne in clusters; beans large and white; is early, strong-growing and prolific.

Large pkt. 10c; lb. 25c; 10 lbs. \$2.00

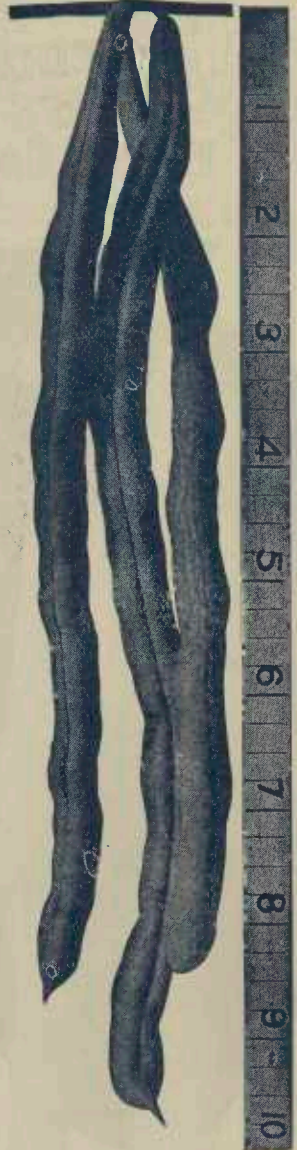
### Dwarf or Bush Lima

**BURPEE'S BUSH LIMA.**—The best late dwarf variety; plant 18 to 24 inches high; very prolific; pods large, and the beans also large and heavily ribbed; will bear until stopped by frost.

Large pkt. 10c; lb. 25c; 10 lbs. \$2.00

**HENDERSON'S BUSH LIMA.**—Fully two weeks earlier than any other variety. Plant grows about 16 inches high, and very prolific; beans are small; especially recommended where the season is short.

Large pkt. 10c; lb. 25c; 10 lbs. \$2.00



Kentucky Wonder.  
Asparagus.



Lima Bean  
(Shelled)

The great "Nitro-Germ"  
for beans, pg. 29.

Market and Truck Gardeners should write us for special prices and state quality and kinds wanted. We'll save you money and you will get "Highest Quality" Seeds.

## BROCCOLI

One Ounce will produce about 2000 plants.

Forms a head like cauliflower, but is much hardier and give excellent results. For fall use sow in April and May, for winter and spring cutting, June and July.

Very extensively planted by our local market gardeners for use in the late fall, winter and spring when cauliflower is out of season. Besides the **White French** our old popular variety, we have procured from England three later varieties of real merit and great value.

**WHITE FRENCH.**—A valuable fall variety, large white heads of good quality.

Pkt. 5c; oz. 35c; 4-oz. \$1.00

**ST. VALENTINE.**—An excellent variety, heads large, solid and white; remains in good condition a long time. We import our seed direct from the originator. This strain has given excellent satisfaction to our large growers. Ready to cut in February.

Pkt. 10c; ¼ oz. 30c; 1 oz. 85c

### SUTTON'S WINTER MAMMOTH

Immense white heads, superb in texture and quality, coming into use in midwinter, when the late autumn cauliflowers and broccoli are over. Vigorous in habit and self-protecting. Largely grown in Cornwall for the London market.

Pkt. 10c; ¼ oz. 35c; 1 oz. \$1.00

### SUTTON'S LATE QUEEN

Quite distinct from all other Broccoli, dwarf and compact in growth, rarely affected by frost, and produces splendid heads in May and June. Sutton's Late Queen has successfully passed through most severe winters. The heads are well protected, large, handsome and greatly appreciated at table.

Pkt. 10c; ¼ oz. 40c; 1 oz. \$1.25



Broccoli Winter Mammoth.

## BEETS

### ROUTLEDGE FAVORITE

A select strain, very early. Perfectly globe shaped, with a single tap root, and of the richest color of any of the beets. It is a splendid keeper, is not excelled in yielding qualities by any other sort, is exceedingly tender, fine and sweet and is unequaled for table use. Market gardeners will find our Favorite a very profitable variety to grow, as no other sort approaches it in attractiveness or quality.

Pkt. 10c; oz. 15c; 4-oz. 40c; lb. \$1.25

**CROSBY'S EGYPTIAN.**—Very popular early beet, as it reaches the desired size quickly. The beets are of good size, rather flat than round, and flesh dark.

Pkt. 5c; oz. 15c; 4-oz. 40c; lb. \$1.00

**EDMAND'S BLOOD TURNIP.**—Unsurpassed for late planting; deep blood-red flesh, very tender and juicy, runs very evenly in size and quite round; grows a small top; leaves dark red with dark midrib.

Pkt. 5c; oz. 15c; 4-oz. 35c; lb. \$1.00

**DETROIT DARK RED.**—Excellent variety, nearly globular, dark skin and dark flesh, zoned lighter; maturing early and keeping crisp and tender for a long time.

Pkt. 5c; oz. 15c; 4-oz. 40c; lb. \$1.00

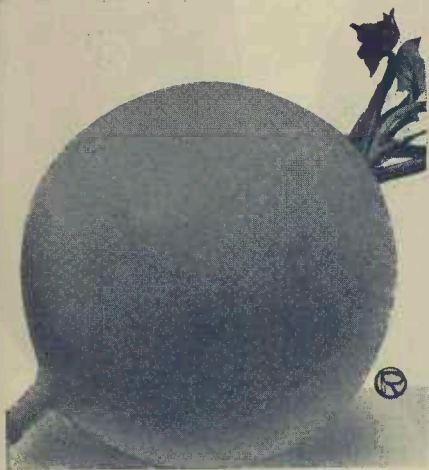
**LONG BLOOD.**—The root is smooth and handsome, flesh brilliant in color and excellent quality. Good keeper.

Pkt. 5c; oz. 10c; 4-oz. 30c; lb. 85c

## BRUSSELS SPROUTS

One ounce will produce about 2000 plants.

**PERFECTION.**—The finest variety of all the Brussels Sprouts; very large and of superior quality. Pkt. 5c; oz. 15c; 4-oz. 40c



Routledge Favorite.

**HALF LONG BLOOD.**—Becoming more and more popular. Excellent in shape and quality; yields well.

Pkt. 5c; oz. 10c; 4-oz. 30c; lb. 85c

**SWISS CHARD (Sea Kale).**—Cultivated largely for its broad leaf stalks.

Pkt. 5c; oz. 15c; 4-oz. 35c

**IMPROVED EARLY BLOOD TURNIP.**—An extra selected stock of blood turnips, having larger, coarser tops and roots than the Detroit Dark Red, and requiring a considerably longer time to mature; excellent for summer and autumn.

Pkt. 5c; oz. 15c; 4-oz. 40c; lb. \$1.00

## BEETS—Continued

### Stock Beets or Mangels, and Sugar Beets

Price of all the following varieties: Pkt. 5c; oz. 10c; 4-oz. 20c; lb. 45c; 10 lbs. and upward, not prepaid, 30c lb.

#### GIANT YELLOW ECKENDORF

Another new mangel of great merit. The roots are smooth, long and cylindrical in shape, very heavy, weighing up to 15 and 20 pounds each; grow two-thirds above ground. The flesh is firm, crisp and solid, white in color and of high feeding value. (See cut.)

#### GIANT HALF SUGAR MANGEL

A new variety, very much more valuable for feeding purposes than the old sorts, it being very much richer. Yields as much per acre as the best Mangels, and twice as much per acre (bulk of roots) as the rich sugar beet. Roots long and thick and large, very smooth, with few rootless and creamy white in color. (See cut.)

#### IMPROVED MAMMOTH LONG RED

Very popular and much used. A large and heavy cropper. Dark red skin, with whitish flesh; grows one-half or more above the ground; roots quite regular; attain a very large size. (Same shape as No. 2.)

#### DANISH SLUDSTRUP

An improved variety, considered one of the best. Awarded first class certificate. Color, reddish-yellow and of a distinct type. It is very hardy, grows well above ground; is easily pulled and very nutritious. (See cut.)

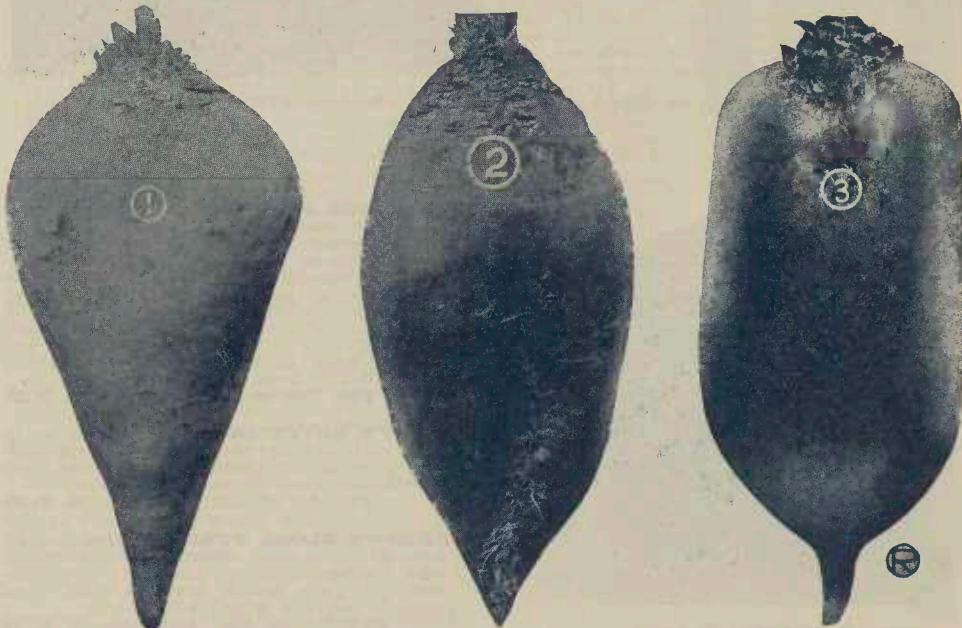
**GOLDEN TANKARD.**—An enormous yielder of weight per acre, and at the same time very nutritious; flesh deep yellow, of fine shape, growing largely above ground, thus being easily harvested. (Same shape as cut No. 3).

#### FRENCH WHITE SUGAR

The sugar beet most generally grown for stock, as it combines, with heavy yield, from 10 to 13 per cent of sugar.

#### KLEIN WANZLEBEN

This is the variety which is considered best in Germany for producing sugar, and is now taking the lead in this country for this purpose.



(1) Giant Half Sugar.

(2) Danish Sludstrup.

(3) Giant Yellow Eckendorf.

## CHICORY

One ounce is sufficient for a bed of 4 square yards.

**Large-Rooted, or Coffee.**—Leaves, when blanched, make an excellent salad.

Pkt. 5c; oz. 15c; 4-oz. 40c; lb. \$1.25

## COLLARDS

**True Georgia.**—Used as "greens" mainly in the South and West. As the leaves are pulled off, others grow in their places.

Pkt. 5c; oz. 15c; 4-oz. 30c

## CHERVIL

One ounce sufficient for 100 feet of drill. **Curled.**—An aromatic herb, resembling parsley, and used for flavoring in soups and salads.

Pkt. 5c; oz. 15c; 4-oz. 40c

## CRESS

**Curled or Pepper Grass.**—Used as a salad.

Pkt. 5c; oz. 10c; 4-oz. 25c

**True Water.**—This is quite distinct from the former and only thrives when its roots and stems are submerged in water. It is one of the most delicious of small salads.

Pkt. 10c; oz. 35c; 4-oz. \$1.25

**DO YOU SEND EAST for your Seeds? It's bad policy. Spend your money on this Coast. Here's where you sell your products. Our Seeds are highest quality.**

“Highest Quality”

CABBAGE

True and Pure

Our Cabbage Seeds come from the world's best growers—pure, true strains, of highest quality. One ounce will produce over 2000 plants. One-quarter pound of seed will produce plants sufficient for one acre, therefore, don't practice false economy by buying low-priced, low-quality seed.

EARLY JERSEY WAKEFIELD

The earliest and hardest heading of first early cabbages. Most gardeners depend upon it for the bulk of their extra early crop. Its exceeding hardness not only to resist cold but other unfavorable conditions, insures the greatest likelihood of profitable and satisfactory results. Our stock is grown and selected with the greatest care; there is none better, and few as good. Head conical, very compact, solid and of excellent quality. The thick, stout leaves and compact habit of the variety make it the best sort of very early setting. **HIGHEST QUALITY SEED.**

Pkt. 5c; oz. 25c; 4-oz. 75c; lb. \$2.50



Early Jersey Wakefield.

COPENHAGEN MARKET—New

The earliest large round-headed Cabbage yet introduced. The heads are of exceptionally large size for so early a variety. The plant is of vigorous habit but compact, with short stem and few outer leaves which are of rather upright growth. The leaves are medium light green, nearly round, comparatively thick and smooth. The heads are round, very solid and of exceptionally good quality. Its earliness, compact growth, uniformity and size of head, firmness and most excellent quality combine to make Copenhagen Market the most valuable cabbage of recent introduction. We recommend it unreservedly, both for the home garden and the market gardening trade. (See cut).

Pkt. 10c; ½ oz. 30c; oz. 50c; 2-oz. 75c; ¼-lb. \$1.25

**EARLY YORK.**—A small, early, conical heading cabbage. Has been very popular. Plant close.

Pkt. 5c; oz. 20c; 4-oz. 60c; lb. \$2.00

“Wonder” Odorless Fertilizer.

Use a spoonful of “Wonder” to each cabbage plant, and you will have the best cabbage you ever raised. It's the greatest fertilizer ever prepared for vegetable and flower gardens. Only 25c a package. See page 30.



Copenhagen Market (Outer leaves off)

R. S. & F. CO.'S OREGON WAKEFIELD

A new most remarkable and valuable strain of Wakefield. It has the same general characteristics of other Wakefield cabbages, the heads being conical with a rounded or blunt point. It is, however, far superior to other strains, being nearly double the size and of better quality, and at the same time is almost as early. It has few outer leaves, permitting close planting.

Pkt. 10c; oz. 30c; 4 oz. 90c; lb. \$3.00

**EARLY WINNIGSTADT.**—One of the best for general use, being very hardy and sure to head. Head regular, conical, very hard and keeps well both summer and winter. It is the hardiest, not only as regards frost, but will suffer less from excessive wet, drought, insects or disease than any other second early sort.

Pkt. 5c; oz. 20c; 4 oz. 60c; lb. \$2.00

**EARLY SPRING.**—It is the first early round-head cabbage, maturing about the same time as Jersey Wakefield. One of its chief claims to superiority is the remarkable uniformity of the heads. They are also very solid, even when young, and with very small outside leaves.

Pkt. 5c; oz. 15c; 4 oz. 55c; lb. \$1.75

DANISH ROUND HEAD

An Earlier Short Stemmed Strain of the Famous Danish Ball Head.

Large and very solid, round head on short stems, having the same keeping quality as the original strain of Danish Ball Head, so widely known. It is 10 days to 2 weeks earlier and produces larger yields. It is especially valuable for high, dry land, producing good sized heads where other strains would be too small. For shipping in the late fall or winter there is no finer cabbage. Our seed of Danish Round Head comes direct from the originator in Denmark and is of the Highest Quality.

Pkt. 10c; oz. 25c; 4 oz. 75c; lb. \$2.50

**CABBAGE PLANTS.**—During planting season we aim to have on hand large quantities of Cabbage and Vegetable Plants. (See page 28).

## Cabbage—Continued

**DANISH BALL HEAD  
GENUINE DANISH GROWN  
STOCK**

Most remarkable late cabbage yet produced, heads hard and solid—fine grained and tender. Entirely distinct. Exceedingly hardy in resisting cold and dry weather. We offer true, pure seed of the very finest short stemmed type. Famous for its hard-heading qualities, which at once recommends it as highly valuable for shipping. The magnificent heads are round in form and keep in excellent condition during winter, coming out in the spring perfectly solid.

**Pkt. 5c; oz. 25c; 4 oz. 75c; lb. \$2.50**

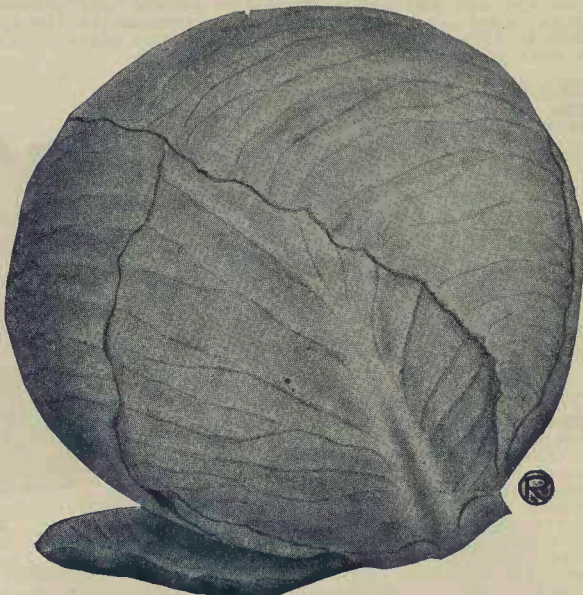
**PREMIUM LATE FLAT DUTCH.**

—A low-growing variety; heads large, bluish green; round, solid, broad and flat on top; an excellent fall and winter variety, and a good keeper. It is a sure header. Our stock has been grown from carefully selected heads, and we consider it superior to any other strain of Flat Dutch cabbage on the market.

**Pkt. 5c; oz. 20c; 4 oz. 75c; lb. \$2.25.**

**MAMMOTH ROCK BED.**—Best hard-headed, red variety; large heads, globular, and very deep red on top; outer leaves greenish; especially used for pickling.

**Pkt. 5c; oz. 25c; 4 oz. 75c; lb. \$2.25.**



**Danish Ball Head or Hollander.**

**PERFECTION DRUMHEAD SAVOY.**—A variety that is much prized by those who are familiar with it. It is very sweet and crisp, and always tender. Heads medium size and compact, with densely and uniformly crimped or savoy leaves.

**Pkt. 5c; oz. 25c; 4 oz. 75c; lb. \$2.50**

“Highest Quality”

**CAULIFLOWER**

Plants Page 28



**Routledge Snow White**

**VEITCH'S AUTUMN GIANT.**—A large, late variety, very hardy. The heads are well protected by the foliage, enabling it to resist unfavorable climatic conditions.

**Pkt. 5c; ¼ oz. 20c; oz. 60c; 4 oz. \$1.75**

**ROUTLEDGE'S "SNOW WHITE"**

In competition with all other strains, this cauliflower has won the approval of critical gardeners, being the earliest and best sort grown. It is suitable not only for early use, but is superior for late planting. The heads are hard and solid, and do not spread as do some of the inferior sorts. No other equals it in purity of color, being clear snow white. It is equally desirable for family use and for the market garden. The heads are large—from 9 to 12 inches in diameter. On account of its close growing, compact habit, many more plants may be grown on a given area than of the late spreading sorts.

**Pkt. 20c; ¼ oz. 75c; ½ oz. \$1.35; oz. \$2.50**

**EARLY SNOWBALL**

This variety is much in demand by market gardeners for main crop. Its earliness, compact habit, large-sized heads and snow-white color recommend it to every grower as a variety of especial merit. We have an extra selected stock of this sort, and recommend it with the greatest confidence.

**Pkt. 15c; ¼ oz. 65c; ½ oz. \$1.15; oz. \$2.00**

**NEW CALIFORNIA WONDER.**—A late variety, forming good, large, solid heads during the winter. This variety has given great satisfaction in Oregon and California, wherever tried.

**Pkt. 10c; ¼ oz. 60c; oz. \$1.00; ¼ lb. \$3.00**

**ALGIERS.**—A very popular late variety, with large heads.

**Pkt. 10c; ½ oz. 40c; oz. 75c; 4 oz. \$2.25**

**BUG DEATH** kills all leaf-eating insects; excellent for using on cabbage, cauliflower, etc. Can be used either dry or in water. See description, pg. 103; also dusters and blowers pg. 101.

## CARROT

**FRENCH FORCING.**—A very popular variety for forcing. The root is globe-shaped, with distinct tap root; color bright orange scarlet.

Pkt. 5c; oz. 15c; 4 oz. 40c; lb. \$1.00

**EARLY SCARLET HORN.**—An excellent variety for early forcing; grows with a small top; is very fine grained and of good flavor.

Pkt. 5c; oz. 15c; 4 oz. 40c; lb. \$1.00

### ROUTLEDGE MODEL

The finest early table variety grown. Handsome, meltingly tender and sweet.

This new carrot will no doubt prove to be one of the most popular varieties. You will be delighted with the melting tenderness and sweet, mild flavor of Routledge Model.

It is a half-long cylindrical carrot, blunt pointed, with a small tap root and small top. They run very uniform in shape and grow just the right size. The flesh is of fine texture, entirely devoid of stringiness, coarseness and woody heart; color bright orange; very attractive when served.

Pkt. 10c; oz. 20c; 4 oz. 50c; lb. \$1.25

**CHANTENAY**—The Market Gardener's Favorite.—Tops medium sized, necks small, roots tapering slightly, but uniformly stump-rooted and smooth; color deep orange-red; flesh very crisp and tender; medium early; a heavy cropper.

Pkt. 5c; oz. 10c; 4 oz. 30c; lb. 75c

**DANVER'S HALF-LONG IMPROVED.**—A great favorite; big cropper; the roots are smooth and handsome, medium size, tapering uniformly to a blunt point and of a rich, dark orange; fine for table or stock feeding.

Pkt. 5c; oz. 10c; 4 oz. 30c; lb. 75c

**GUERANDE, OR OXHEART.**—Bright orange, broad at the top and terminates abruptly in a small tap root. Length about 5 to 6 inches very fine grained and sweet. Excellent for shallow soils.

Pkt. 5c; oz. 10c; 4 oz. 30c; lb. 75c

### ROUTLEDGE MAMMOTH—The Best Carrot for Stock

The heaviest cropping carrot grown, yielding more tons to the acre than any other sort. The flesh is yellowish-white, crisp and solid, and very sweet in flavor. It is a vast improvement on the Belgian sorts, which have been favorites in the past, as it is not only much more productive, but vastly easier to handle. The roots are short and very heavy at the shoulder, rendering them easily harvested. Too much can scarcely be said of their size and great productiveness. The roots frequently measure 15 to 20 inches in circumference, and 18 to 40 tons to the acre is not an extravagant statement as to yield.

Large pkt. 10c; oz. 15c; 4-oz. 40c; lb. \$1.10; 2 lbs. enough for 1 acre, \$2.00



Routledge Model.

**LONG ORANGE IMPROVED.**—The best of the long carrots, especially for stock; color bright orange, with long, tapering roots, requiring a deep soil.

Pkt. 5c; oz. 10c; 4 oz. 30c; lb. 75c

**LARGE WHITE BELGIAN.**—Extensively grown for stock feeding; roots pure white, green above ground and growing to a large size; flesh rather coarse.

Pkt. 5c; oz. 10c; 4 oz. 25c; lb. 70c



Oregon City, Ore.  
Routledge Seed & Floral Co.  
Gentlemen: The Routledge Mammoth Carrot is the best I ever had for stock and the heaviest cropping Carrot I ever had on the farm.

Yours,  
J. T. EVANS.

"Highest Quality"

## CELERY

Plants Page 28

**NOTE.**—We are offering only the very best strains of Celery Seed. Low-Priced Celery Seed is very disappointing and practically worthless. Don't buy it.



Paris Golden Self Blanching

### R. R.'S WHITE PLUME

**Our leading White Celery.**

A handsome, crisp sort, of very easy cultivation. Naturally its stalks and portions of inner leaves and heart are white, so that by closing the stalks, either tying or by simply drawing the soil up against the plant and pressing it together, the work of blanching is completed without the troublesome process of "banking" or earthing up." It is the earliest celery known, delicious and fine flavored.

Pkt. 10c; oz. 30c; 4 oz. \$1.00; lb. \$3.50

### PARIS, GOLDEN SELF-BLANCHING

The finest strain of French grown seed. This splendid variety is without doubt the most popular celery grown. It is a self-blanching sort, for with a little banking or covering, even the outer ribs assume a beautiful golden yellow, while the heart or vine stalks are deliciously tender, brittle and sweet. This variety is being very extensively grown both for market and private use, not only on account of its ease of cultivation, but for its superior quality. It is not quite so early as the White Plume, but is of heavier and more compact growth, the stalks being thick, crisp and brittle. The hearts are large and solid, blanching a beautiful waxen yellow. It is tender and sweet and free from stringiness. Its flavor is rich and delightful. Our Private Stock Seed is procured from a noted celery grower in France, and is very superior.

Select quality: Pkt. 15c; ½ oz. 75c; oz. \$1.40

### GOLDEN YELLOW SELF-BLANCHING.—

Same variety of celery as above, but is American grown. It is equal to most seeds offered, but not as true, dependable or of such high quality as the French grown stock. Pkt. 10c; oz. 50c; 4 oz. \$1.75

**GIANT PASCAL.**—Excellent for fall or winter use, and has increased in popularity every year. A large, tall grower of the finest nut flavor, being free from any bitter taste. Very broad stalks, blanching very quickly with little banking up; an admirable keeper.

Pkt. 5c; oz. 20c; 4 oz. 60c; lb. \$2.00

**WINTER QUEEN.**—One of the best winter varieties, and highly recommended. It is tall and forms a large bunch. The leaves are light green.

Pkt. 5c; oz. 20c; 4 oz. 75c; lb. \$2.50

**SOUP CELERY** for flavoring.

4 oz. 10c; lb. 35c

## CORN SALAD

One ounce sufficient for bed 20 ft. square.

**LARGE LEAVED FETTICUS.**—Used as a salad. Pkt. 5c; oz. 10c; 4 oz. 30c; lb. \$1.00

## CELERICAC

Turnip rooted celery

**LARGE ERFURT.**—An improved form, producing large, smooth roots, which are nearly round.

Pkt. 5c; oz. 25c; 4 oz. 75c

**PREMIUMS.**—No matter what you are buying, the only premium worth your consideration is **QUALITY**. "OUR MOTTO" is "HIGHEST QUALITY," first, last and all the time, "price" as low as possible.

**Selected CORN—SWEET OR SUGAR Northern Grown**

Single pound prices only prepaid. Write for quantity prices.



Routledge Selected Strain Golden Bantam.

**Routledge's Selected Strain**

**GOLDEN BANTAM**

**Flavor.**—Without exception, Golden Bantam Corn is the richest in flavor of all varieties; a sweet corn of which one will never tire. The first trial of this delicious Sweet Corn creates a taste “like more.”

**Earliness.**—Golden Bantam Sweet Corn is one of the earliest sweet corns. It matures quickly and is suitable, not only for early planting (on account of its hardiness), but a succession of sowings may be made which will give continuous supply until fall.

**Color.**—When picked at the proper stage of its growth the kernels are a rich, creamy yellow. This deepens to an orange yellow as it ripens. Its first appearance often leads the purchaser to doubt its being a sweet corn. A trial, however, soon convinces that the color has no effect on its unsurpassed quality.

**Growth.**—Being dwarf in growth, with stalks small in size, it can be planted quite close, and a large crop may be obtained on a small area. The ears are 8 to 12-rowed, and 6 to 7 inches in length—just the right size to handle at the table.

**The Best Ever.**—We have yet to hear of one who has grown Golden Bantam Sweet Corn and was not well pleased with it. From all points come letters from pleased customers. So sure are we that it will satisfy everyone who tries it this season, that we agree to refund the price paid us for Golden Bantam if it does not give perfect satisfaction.

**Price:** Large pkt. 10c; lb. 20c; 10 lbs. \$1.50; 20 lbs., enough for 1 acre, \$2.25.

**PEEP O' DAY**

Extremely early, very productive and of excellent flavor and quality. Ears medium sized but always well filled. Stalks quite dwarf and can be planted quite close, thereby securing a large crop off a small space. An ideal white sweet corn for the home garden.

Large pkt. 10c; lb. 20c; 10 lbs. \$1.25

**PORTLAND MARKET**

An Oregon introduction, claimed to be the earliest large eared sweet corn and very productive. We have seen fine large ears of this variety in the public market here very early. They were of large size and good flavor.

Large pkt. 10c; lb. 25c; 10 lbs. \$1.50

**EARLY MAMMOTH.**—Medium early, one of the very best varieties to plant for home garden or market. Ears large and well filled, sweet and of good quality. Planted early it will produce a large, profitable crop. Large pkt. 10c; lb. 20c; 10 lbs. \$1.00

**WHITE COB CORY.**—Quite early and of good size. Excellent quality; good for main crop and market.

Large pkt. 10c; lb. 20c; 10 lbs. 90c

**FIELD CORN**—Don't overlook what we have to offer in Oregon-grown Field Corn; “the best ever. Page 35.

**EARLY MINNESOTA.**—This old and deservedly popular variety is one of the best early sorts for the market and private garden.

Large pkt. 10c; lb. 20c; 10 lbs. \$1.00

**BLACK MEXICAN.**—An extra fine variety, unsurpassed for sweetness. Ears bluish-black when ripe, but whiten on being cooked.

Large pkt. 10c; lb. 20c; 10 lbs. \$1.00

**STOWELL'S EVERGREEN.**—A good main crop or late sort. Remains longer in green state than any other. Very large ears, with deep grains, and remarkably sweet. Locally it must be planted early to mature.

Large pkt. 10c; lb. 20c

**POP CORN**

**WHITE RICE**—Most popular and profitable kind; short ears, white, pointed kernels.

Large pkt. 10c; lb. 15c



## CUCUMBERS



**Routledge Highest Quality Cucumber.**

### Routledge Highest Quality (Forcing)

An extra selected strain of long, smooth white spine. A quick grower and always commands "fancy prices" on account of its fine form and superb quality. Excellent for forcing under glass or home garden use.

**Pkt. 10c; oz. 20c; 4 oz. 50c; lb. \$1.50**

### Arlington White Spine

One of the best sorts for table use. Vines vigorous, fruiting early and abundantly. Fruit uniformly straight, light, bright green in color, with a few white spines. Flesh crisp, tender and of excellent quality. **Pkt. 5c; oz. 10c; 4 oz. 30c; lb. \$1.00**

### Improved Long Green

The leading large variety. Fruit from 10 to 12 inches long, dark green, crisp and tender. A good variety for slicing, and when ripe they are the best for sweet pickles. We offer "Highest Quality" seed that will grow long and uniform fruit.

**Pkt. 5c; oz. 15c; 4 oz. 40c; lb. \$1.10**

### JAPANESE CLIMBING.

—Often used for ornamental purposes, as the vines are very vigorous, throwing out tendrils, enabling them to climb trellises admirably. Dark green fruit, quite large and very tender.

**Pkt. 10c; oz. 15c; 4 oz. 50c**

## EGGPLANT

### NEW YORK IMPROVED SPINELESS.—

Considered the best variety. Oval shaped, deep purple, large size and fine flavor.

**Pkt. 10c; ½ oz. 25c; oz. 40c; 4 oz. \$1.25**

## ENDIVE

This is a hardy vegetable, cultivated principally for a winter salad. Sow from May until August for a succession of crops; tie the leaves closely together to blanch them.

**BROAD LEAVED BATAVIAN.**—Leaves are broad, thick, green, more or less twisted and waved with white mid-ribs. It forms large hearts, which when blanched, form one of the best winter salads. Crisp, tender and fine flavor.

**Pkt. 5c; oz. 15c; 4 oz. 45c.**

**GREEN CURLED.**—The hardiest of all, with beautifully curled dark green leaves, tender and crisp.

**Pkt. 5c; oz. 15c; 4 oz. 40c**

**Pkt. 5c; oz. 15c; 4 oz. 40c**

**WHITE CURLED.**—Very tender and white; blanches easily.

### Lemon Cucumber

New. Highly recommended by those who have tried it. Resembles a lemon both in form and color, having a distinctive flavor superior to and not found in any other cucumber. Very prolific.

**Pkt. 10c; oz. 25c.**

### Boston Pickling

A distinct variety, very popular for pickles; color bright green, a great producer and of excellent quality. It is for producing medium-sized pickles that this variety is so highly esteemed. If the fruits are gathered as soon as large enough, the vines will continue bearing through a long season.

**Pkt. 5c; oz. 15c; 4 oz. 35c; lb. 75c**

**EARLY SHORT GREEN.**—A very early and productive variety, bright green, rather short, straight and a little smaller at the ends. Crisp and tender.

**Pkt. 5c; oz. 10c; 4 oz. 35c; lb. 75c**

**EARLY GREEN CLUSTER.**—One of the extra early varieties. A great bearer; fruit small, dark green and borne in clusters of excellent quality.

**Pkt. 5c; oz. 10c; 4 oz. 40c; lb. 90c**

## HORSE-RADISH ROOTS

Will form radishes of large size in one season's growth. For prices, see Vegetable Plants and Roots, page 28.

## KALE or Borecole

Kale, or Borecole, does not form a close and solid head, but a cluster of beautifully curled or wrinkled leaves, that are tender and of excellent flavor. It requires the same treatment as cabbage; is very hardy, being improved by frost.

**DWARF GREEN CURLED.**—Beautifully curled, bright green leaves, tender and of fine flavor.

**Pkt. 5c; oz. 10c; 4 oz. 25c; lb. 75c**

**TALL GREEN CURLED.**—Grows about two feet high; leaves dark green; curled and wrinkled; very hardy.

**Pkt. 5c; oz. 10c; 4 oz. 25c; lb. 75c**

**THOUSAND-HEADED.**—For stock feeding. See Field Seeds, page 34.

On Cucumber and Garden Plants use Bug Death for Insects (see pg. 103), and "Wonder Fertilizer", (see pg. 30), and you will be more than pleased with results.

## KOHLRABI

The edible part is the turnip-shaped bulb formed above ground. It is tender and excellent, combining somewhat the flavor of cabbage and turnips. Sow in drills and thin to 6 inches apart.

**Early Purple Vienna.**—Fine early variety, with purple skin and white flesh.  
Pkt. 5c; oz. 25c; 4 oz. 70c

**Early White Vienna.**—Extremely early, medium size, excellent quality.  
Pkt. 5c; oz. 25c; 4 oz. 70c

## LEEK

Belongs to the onion family and culture is about the same.

**Carentan.**—Mild and sweet; largest variety; hardy and of the finest quality.

Pkt. 5c; oz. 20c; 4 oz. 60c

**AMERICAN FLAG.**—Very broad, thick stems of good flavor.

Pkt. 5c; oz. 20c; 4 oz. 60c

## LETTUCE

### GRAND RAPIDS

Very popular with private gardeners and as a lettuce for greenhouse forcing. It will stand shipping better than most curled sorts. Of quick growth and stands for some days after being fit to cut. The plant is upright, and forms a loose head or cluster of large, bright green leaves, finely crimped and ruffled; rather thin, good flavor, crisp and tender.

Pkt. 5c; oz. 15c; 4 oz. 35c; lb. \$1.25



~~~~~  
Our Motto:  
Quality first,  
price as low as  
we can make it.  
~~~~~

Grand Rapids Lettuce.

### HANSON

**Improved Hard Heading Stock.**—The leading head lettuce. We can recommend this as one of the very best. Heads green outside and white inside; grow to a remarkable size; very solid, and is deliciously sweet, crisp and tender. It withstands the hot sun. Pkt. 5c; oz. 15c; 4 oz. 35c; lb. \$1

**SIMPSON'S EARLY CURLED.**—A very extensively used early loose-leaved, or clustering variety. Leaves light green, slightly frilled, crisp, sweet and tender. The sort is especially adapted for sowing thickly and cutting when the plants are young.

Pkt. 5c; oz. 15c; 4-oz. 35c; lb. \$1.00

**EARLY PRIZE HEAD.**—A large, clustering, non-heading lettuce, most excellent for the home garden and undoubtedly the most easily grown variety in cultivation. It is too tender, however, to stand shipping or handling on the market. Leaves finely curled and crumpled, bright green tinged with brownish red, very crisp, tender and sweet. Pkt. 5c; oz. 15c; 4-oz. 35c; lb. \$1.00

### R. R.'S WONDERFUL

A reselected, hand-picked strain of the original New York or Wonderful. Our grower has given this stock special attention and it is a wonderful strain. It produces immense heads of closely folding, ruffled leaves. The heart blanches beautifully and is crisp, tender and delicious. A robust variety, rooting deeply and thus able to resist hot, dry weather; slow to seed, and a sure header. The outer color is of a distinct apple-green. A rapid grower and unsurpassed as a home or market lettuce.

Pkt. 10c; oz. 25c; 4-oz. 75c; lb. \$2.25

### EVERYTHING FINE

Dryad, Wash., Nov. 10, 1914.

Routledge Seed & Floral Co.

Gentlemen: Ordered about \$13 worth of seed and found them perfect in every way and just as represented. All came up fine and did well.

Yours respectfully,

MRS. HARMON.

Junction City, Ore., March 2, 1914.

Routledge Seed & Floral Co.

Gentlemen: I tried your seeds last year and found them to be all right. Your Stratagem Peas and Improved Long Green Cucumbers and California Wonder Cauliflower are certainly fine. I have a cauliflower in the ground now, March 2, measures 3A inches around, and every plant made a head.

Yours respectfully,

MRS. E. B. McCULLOCH.



R. R.'s Wonderful.

**LETTUCE—Continued****R. R.'S TENDER CRISP**

A distinct and extra choice variety for those who like curly, crisp, tender Lettuce of the finest quality.

Grows to a large size, makes most desirable heads of pleasing appearance, and retains its crispness and mild flavor to a greater degree during the hot summer months than any other crisp-head variety. While especially adapted for midsummer, it is most desirable also for spring and fall. The plants are of quick, strong growth; the leaves are of a soft, bright green, growing closely around the heads, which are tightly folded and blanch to a silvery white, and crisp and brittle as could be desired.

Pkt. 10c; ½-oz. 15c; oz. 20c; 4-oz. 50c; lb. \$1.50

**NEW YORK (Los Angeles).**—A large, crisp, tight-heading lettuce which is a great favorite in the markets of Los Angeles and San Francisco. Carloads of this variety is shipped by California growers and it brings the highest prices. The quality is the finest, and is an excellent lettuce in every respect.

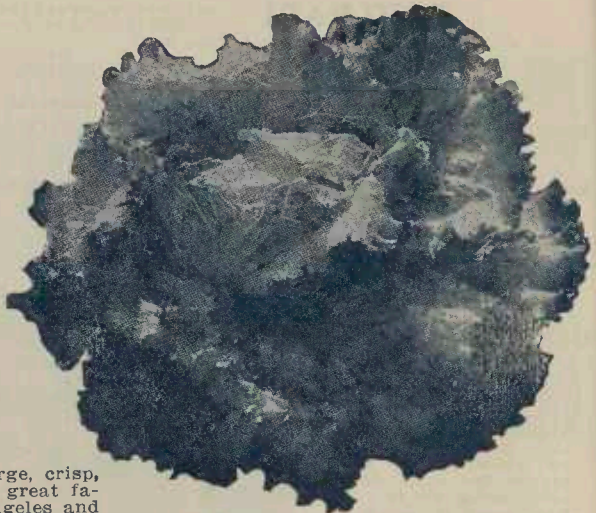
Pkt. 5c; oz. 15c; 4-oz. 50c; lb. \$1.50

**BIG BOSTON.**—Plants large, very hardy and vigorous. Leaves broad, comparatively smooth, wavy at edges, thin, very firm and crisp; color bright light green, slightly tinged with reddish brown. Grown extensively in the south for shipment north in the winter. It usually heads up under cold weather conditions better than any other variety.

Pkt. 5c; oz. 15c; 4-oz. 35c; lb. \$1.25

**MAY KING.**—A very early new variety, forming fine hard heads within a few weeks after planting. It is medium-sized, light green, with buttery but crisp heads. There is just a faint tint of brown on the head. We have had no end of praise from our friends and customers who have tried this variety. It is essentially a spring sort but does well all summer. Being of rapid growth and quick heading it is especially recommended.

Pkt. 5c; oz. 15c; 4-oz. 35c; lb. \$1.25



**R. R.'s Tender Crisp Lettuce.**

**EARLY WHITE COS—Self Folding.**—Distinct in having long, narrow, spoon-shaped leaves, folding into loose, sugar-loaf-shaped heads which blanch better by having the outer leaves drawn about them and tied. Leaves yellowish white, crisp, tender and of superior flavor.

Pkt. 5c; oz. 15c; 4-oz. 40c; lb. \$1.50

**CALIFORNIA CREAM BUTTER.**—A very popular variety for autumn and winter use. Forms a very large head, which is very buttery and of a rich golden-yellow inside. The leaves are thick and of bright green, slightly tinged with brown on top of head.

Pkt. 5c; oz. 10c; 4-oz. 30c; lb. \$1.00

**IMMENSITY.**—A very large-heading variety, one of the largest of the cabbage sorts; larger than California Cream Butter, which it resembles in color and shape. It is especially adapted for planting in the fall and winter, and makes a fine, tender, buttery head.

Pkt. 10c; oz. 15c; 4-oz. 35c; lb. \$1.25



**Big Boston.**

**MUSTARD**

The leaves of mustard make excellent greens of sharp, pungent flavor, and are cooked the same as spinach or beet leaves.

**SOUTHERN GIANT CURLED.**—Large variety, forming a great mass of beautiful leaves, which are ruffled and finely curled on the edges; hardy, vigorous highly recommended.

Pkt. 5c; oz. 10c; 4-oz. 20c; lb. 60c

**White English.**—Light green variety; tender leaves; seed light yellow.

Pkt. 5c; oz. 10c; 4-oz. 15c; lb. 40c

We carry a large stock of Garden Hose, Tools and Supplies of all kinds. See pgs. 103 to 108.

**PLANT SMALL FRUITS** around your garden. What's nicer than delicious fresh fruit, fresh from your garden? See Fruit Department, pages 82 to 88.

## MUSKMELON

### NETTED ROCK OR ROCKY FORD

The most popular and best seller among Muskmelons.

The fruit is oval and completely covered with a beautiful lace-like netting. Flesh very thick; green, very sweet, luscious, melting and superb flavor. The fruit is wonderfully uniform in shape and quality. The favorite everywhere.

Pkt. 5c; oz. 15c; 4-oz. 35c; lb. \$1.00

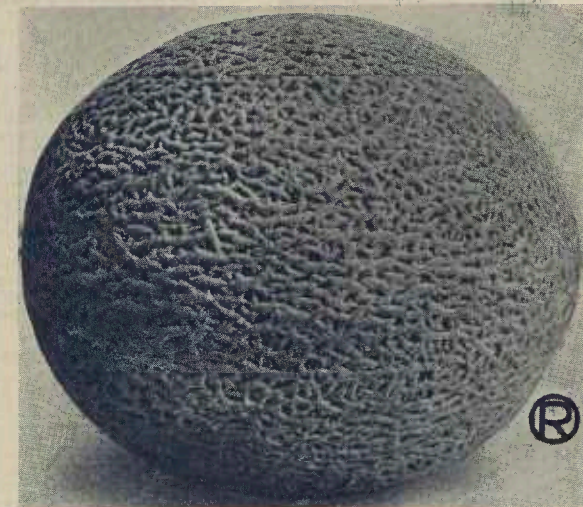
**BURRELL'S GEM** — Select Strain.—A new, medium-sized oval variety, well ribbed and covered with a fine grayish netting and having reddish orange flesh of fine, spicy flavor, sweet and delicious, distinct flavor. There is a growing demand here for the fine-grained, smooth, salmon, red-fleshed Muskmelons.

Pkt. 5c; oz. 10c; 4-oz. 35c; lb. \$1.00

**THE HOODOO**.—One of the best of recent introductions. It is early and prolific. The fruit is of medium size, the seed cavity very small, the rind very thin indeed, and the edible fleshy part thick and meaty. It is of orange or salmon color, the type much preferred now; but its great charm is its flavor, which is par excellence. Test it. Pkt. 10c; oz. 20c; 4-oz. 50c; lb. \$1.50

**MONTREAL IMPROVED NUTMEG**.—Valued for its size and delicious flavor. Round in shape, with remarkably thick green flesh. One of our handsomest varieties. Pkt. 5c; oz. 10c; 4-oz. 35c; lb. \$1.00

**OSAGE, OR MILLER'S CREAM**.—Medium to large, flesh thick, deep salmon, of excellent quality, rich and sweet; skin dark green, slightly netted and ribbed. A favorite variety for the later markets. Pkt. 5c; oz. 15c; 4-oz. 40c; lb. \$1.25



Netted Rock—Rocky Ford.

**LARGE YELLOW CANTALOUPE**.—A distinct type and very popular with all who have tried it. The fruit is large, oblong, slightly ribbed and coarsely netted. The flesh is light yellowish-green, very sweet, crisp and delicious. Pkt. 5c; oz. 15c; 4oz. 35c; lb. \$1.25

### KRIS KRINGLE

The Best of the Winter Casabas

Do not pick until the light streaks become quite yellow. Stow away so they do not touch each other in a cool, dark place. When the rind becomes slightly softened and moist they are ready to eat. Some of the melons will actually keep until February. Pkt. 10c; oz. 20c; 4-oz. 60c; lb. \$2.00

## WATERMELON

### ROUTLEDGE'S OREGON PRIZE

We offer this new Melon with the assurance that it is not only remarkably early, but as sweet, delicate and melting in flavor as any variety grown.

The flesh is of a deep scarlet; rind thin, and on this account is not a particularly good shipping sort, but is emphatically the variety for home use and sale. It will ripen in altitudes where it has not been thought possible to mature a good watermelon. Pkt. 5c; oz. 15c; ¼-lb. 40c; lb. \$1.25

**Cole's Early**.—One of the best early sorts; medium size, green skin and red flesh. Pkt. 5c; oz. 10c; 4-oz. 25c; lb. 75c

**KLECKLEY'S SWEET**.—Unsurpassed for home use or near markets. Vine vigorous and productive; fruit of medium size, oval; color dark green; flesh very bright, rich red and exceedingly sweet. Pkt. 5c; oz. 10c; 4-oz. 30c; lb. 75c

**Cuban Queen**.—A very vigorous grower; early, very solid and heavy; of most delicious flavor. Pkt. 5c; oz. 10c; 4-oz. 25c; lb. 75c



Routeledge's Oregon Prize.

**Citron, Red Seeded**.—Flesh white and solid; used exclusively for pickles and preserves. Pkt. 5c; oz. 15c; 4-oz. 35c

Seed and Reference Tables, Amount to Plant, etc., see complete reference tables inside back cover. Always refer to "Index," pgs. 1-2, for anything wanted.



## MUSHROOM SPAWN

**LAMBERT'S PURE CULTURE SPAWN.**—Mushrooms may be grown in any place where conditions of temperature and moisture are favorable. A shed, cellar or cave may be utilized to advantage for this purpose. It is essential that the temperature be maintained from 53 to 60 degrees F., and that the moisture be properly regulated. Lambert's Pure Culture Spawn is far superior to the old-style varieties, and much better results can be obtained from its use. The bricks should be broken into pieces about two inches square and planted from 10 inches to a foot apart. Bricks weigh from 13 to 20 cunes. A brick will spawn 10 square feet of bed. With Lambert's Pure Culture Spawn it is impossible to raise poisonous mushrooms.

**DIRECT SPAWN.**—Latest and best. **White Alaska, Cream White or Bohemian Brown.**  
**Price, per brick, not prepaid, 25c; 10 bricks, \$2.25; add postage at rate of 1½ lbs. per brick. Write for quantity price.**

**MUSHROOM CULTURE.**—We have a 32-page booklet on Mushroom Culture, nicely illustrated, for 25c, postpaid. Free with an order for 10 bricks. (Other books, page 128.)

## "Highest Quality"

## ONION

## True Pure Seed

### AILSA CRAIG

A magnificent variety of recent English introduction. Unsurpassed for exhibition purposes.

Very large, oval shaped, with straw-colored skin. When grown to perfection will weigh from 2½ to 3 pounds. Has attained great popularity among private gardeners for its all-around superiority and as an exhibition variety.

**Pkt. 10c; oz. 35c; 4-oz. \$1.00**

### NEW GIANT BROWN MILAN

**A Novelty.**—This new onion comes from Northern Italy, where it is also called San Lorenzo. In color it is chestnut brown and grows to a very large size, and is very different in shape from any other kind, being top-shaped, broad and flat, tapering to the root. Extra long keeper.

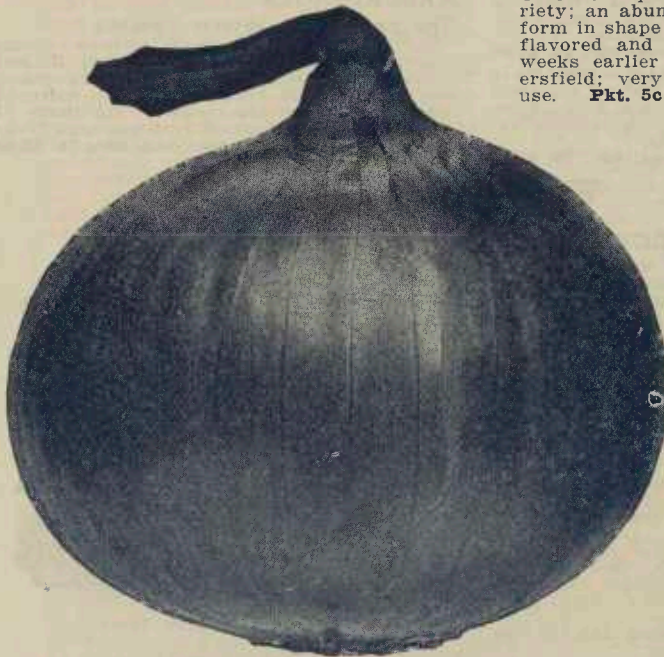
**Price: Original pkts. only this year, ea. 10c**

**EXTRA EARLY RED FLAT.**—The first Red Onion to ripen. A medium-sized, flat variety; an abundant producer and very uniform in shape and size; moderately strong-flavored and comes into use nearly two weeks earlier than the Large Red Wethersfield; very desirable for early market use. **Pkt. 5c; oz. 15c; 4-oz. 50c; lb. \$1.50**

### OREGON YELLOW DANVERS

This is the variety planted almost entirely in the Northwest, particularly in Oregon. The largest crops of onions and the best keepers, bringing the highest prices in the Oregon and California markets, are the Oregon Yellow Danvers. The bulbs are uniformly large, of a half-globe shape, with small necks. It is the earliest, largest in size, most perfect in shape, the largest cropper and the best keeper, and as a market or table onion cannot be excelled. Our seed is grown specially for us by the best onion seed growers in Oregon. No onion grower can afford to plant anything inferior when such seeds can be obtained at following prices:

**Pkt. 5c; oz. 20c; 4-oz. 50c; lb. \$1.75; 3 lbs. \$5.00**



Oregon Yellow Danvers Onion.

Routledge Seed & Floral Co.

Gentlemen: This makes the fifth year I have ordered my onion seed direct from your seed house, though sometimes in larger quantity. They have always been splendid and true to name.

Yours respectfully,

G. A. SOULE, Lebanon, Or., Feb. 24, 1914.

## ONION—Continued

**ROUTLEDGE PRIZE TAKER.**—This onion has become a great favorite on account of its large size and great solidity. It is perfectly globe-shaped, with straw-colored skin; the necks are very small and the onions always ripen up hard. An excellent keeper, exceedingly fine flavor.

Pkt. 10c; oz. 15c; 4-oz. 50c; lb. \$1.50

**CRYSTAL WHITE WAX—New.**—A large pure white, flat onion. During the last few years it has become very popular. Extremely early and one of the mildest and sweetest of all. It is very fine for slicing, the color being so clear and pure. We offer the genuine imported true seed. Pkt. 10c; oz. 40c; 4-oz. \$1.50

**LARGE RED WETHERSFIELD.**—The Standard variety of the red onions. Of large size, a heavy yielder, and one of the best for keeping. Skin a deep purplish red.

Pkt. 5c; oz. 15c; 4-oz. 50c; lb. \$1.35

**YELLOW GLOBE DANVERS.**—One of the most extensively used yellow onions. Bulbs of good size, uniformly globe-shaped, with small neck, and ripen very evenly. Flesh white, crisp and of mild and excellent flavor. An enormous yielder and a fine keeper. We offer a select strain, unsurpassed.

Pkt. 5c; oz. 20c; 4-oz. 50c; lb. \$1.50; 3 lbs. \$4.00

**YELLOW DANVERS.**—A popular and well-known variety. Earlier and flatter than above. Excellent for bunching green.

Pkt. 5c; oz. 15c; 4-oz. 50c; lb. \$1.10  
3 lbs. \$3.00

**AUSTRALIAN BROWN.**—One of the most popular and most sought after onions in many markets. Its remarkable keeping qualities and handsome appearance have brought it rapidly to the front. Resembles the Oregon Yellow Danvers in general appearance, but has a clear, amber-brown skin. It matures early, ripens uniformly and is a good, long keeper.

Pkt. 5c; oz. 15c; 4-oz. 40c; lb. \$1.25

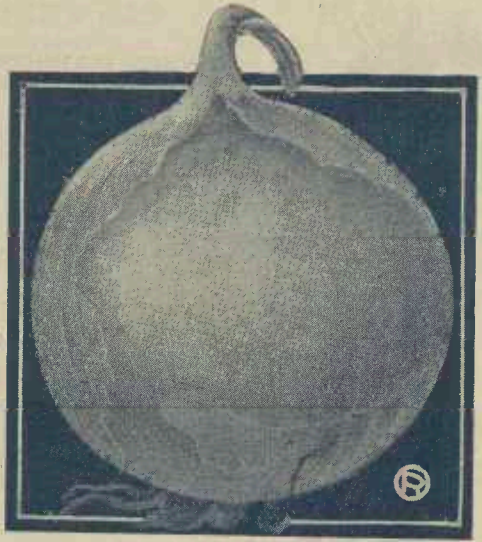
**SOUTHPORT WHITE GLOBE.**—An enormous yielder and superb keeper; perfect globe-shaped, very large, clear white skin and considered one of the handsomest varieties grown. We offer the very finest stock obtainable.

Pkt. 10c; oz. 20c; 4-oz. 65c; lb. \$2.50

Special  
Onion Fertilizers.  
See page 31.



Australian Brown.



Routledge Prize Taker.

**BARLETTA (Queen).**—A white variety; prized for pickling on account of its small size and remarkable keeping qualities. Of very quick growth, flat-shaped and fine flavor.

Pkt. 5c; oz. 20c; 4-oz. 65c; lb. \$2.00.

**WHITE PORTUGAL, or Silverskin.**—The finest flavored of all the white-skinned onions. Quite early, flat-shaped and a fine cropper.

Pkt. 10c; oz. 25c; 4-oz. 65c; lb. \$2.00.

## ONION SETS

**BOTTOM ONION SETS.**—These small onions are grown from seed that have been sown too thick to attain a large size. The small onions (about 1/2-inch in diameter) thus obtained are planted out and are ready in a short time to pull as green onions for the table.

Per lb. 15c; prepaid 20c or 5 lbs. \$1.00.

Write for low prices by the 100 lbs.

**TOP SETS.**—Lb. 25c, postpaid.

**SHALLOTS.**—Valuable for bunching or for an early crop. Each bulb makes several small onions, which are to be pulled off when large enough.

Per lb. 25c, 5 lbs. \$1.00 prepaid.

## OKRA

**Improved Dwarf Green.**—Very productive; long, slender green pods.

Pkt. 5c; oz. 10c; 4-oz. 25c

Albany, Ore., March 23, 1914.

Routledge Seed & Floral Co.

Dear Sirs: The Sweet Pea seed sent me last year proved to be the best I have ever received from any house. So many people asked me where I bought my seed, as mine were beyond a doubt "a feast for the eyes to behold."

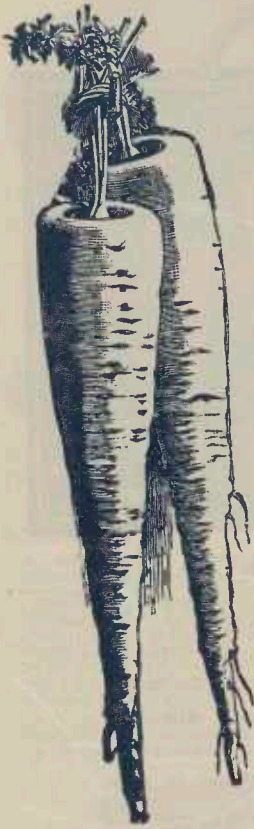
Trusting you will give this small order your immediate attention, I beg to remain,

Very truly yours,

ALLAN C. STELLMACHEN.

**DON'T**

Practice false economy by buying low-priced seeds. Our motto—"HIGHEST QUALITY", price as low as we can make it.



Parsnip.

## PARSNIP

### SWEET MARROW

This fine new parsnip of English origin is offered with full confidence that it will become a prime favorite with all who use it. It is very fine grained and exceedingly sweet, while the peculiar "parsnip" flavor is fully preserved. The roots are unusually smooth and attractive in appearance. The best of all parsnips for the private or market garden.

Pkt. 5c; oz. 10c; 4-oz. 30c; lb. 75c

**HOLLOW CROWN.**—The most popular variety; medium length roots, very smooth and of the finest quality. Derives its name from a depression at top of crown or root; very fine table sort.

Pkt. 5c; oz. 10c; 4-oz. 25c; lb. 65c

### True and Reliable

Corbett, Ore., April 15, 1914.

Routledge Seed & Floral Co.

Gentlemen: I have used your garden seeds for several years and find them true to name and excellent growers.

Yours truly,

MRS. E. KNAPP.



Red Chili.

## PEPPER

**LARGE BELL, OR BULLNOSE.**—A very large, inverted bell-shaped, valued for pickling or for filling; thick, hard flesh, not very pungent and remarkably early for such a large fruit.

Pkt. 5c; oz. 30c; 4-oz. 85c

**DWARF EARLY SQUASH.**—A very mild-flavored variety, popular with the market gardeners; very thick flesh; fruit very smooth and almost round; of dwarf growth and great productiveness; one of the earliest.

Pkt. 5c; oz. 30c; 4-oz. 85c

**RED CHILLI.**—A rather small, bright red variety about 2 inches long and pointed; the pods are used in making chilli sauce, and are very pungent and hot.

Pkt. 5c; oz. 30c; 4-oz. 85c

**CAYENNE.**—Long, red, pointed pods; very strong and used largely for making pepper sauce; popular variety.

Pkt. 5c; oz. 30c; 4-oz. 85c

**CHERRY RED.**—Rich, glossy, scarlet fruit at maturity; small, smooth and round; of dwarf habit.

Pkt. 5c; oz. 30c; 4-oz. 85c

## PUMPKIN

### WINTER LUXURY

An enormously productive variety of medium size and superior keeping qualities. Of rounding shape, about 10 inches in diameter; golden russet color, finely netted, rich deep golden flesh; sweet and tender. By far the best for pies; try it.

Pkt. 5c; oz. 15c; 4 oz. 35c; lb. 85c

**SMALL SUGAR.**—Fine grained, very sweet and excellent keeper. Skin deep orange yellow.

Pkt. 5c; oz. 10c; 4 oz. 25c; lb. 75c

### KING OF MAMMOTHS

The largest of all the pumpkins; grow this variety to win the prizes at the fair.

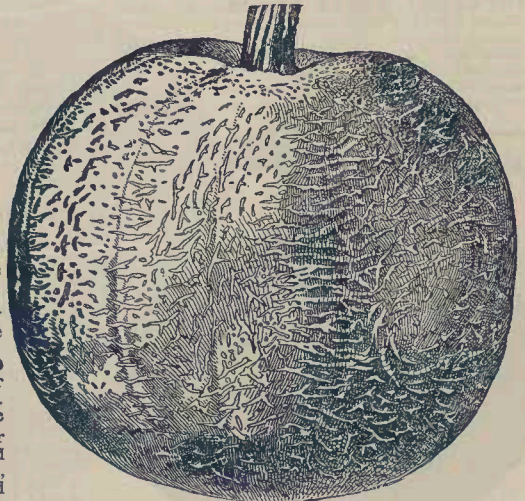
Pkt. 10c; oz. 15c; 4 oz. 50c; lb. \$1.50

**CONNECTICUT FIELD.**—The best for field culture and excellent for stock.

Pkt. 5c; oz. 10c; 4 oz. 20c; lb. 45c

**LARGE SWEET CHEESE.**—A popular variety; fruit flattened; skin mottled light green and yellow; flesh yellow, thick and tender; very nutritious and of excellent quality; a most productive variety.

Pkt. 5c; oz. 10c; 4 oz. 20c; lb. 60c



Winter Luxury Pumpkin

**DOUBLE THE YIELD OF YOUR PUMPKINS** by using one-half lb. of "WONDER" Fertilizer to each hill and be sure you mix it well in the top soil. (See page 30).

"Highest Quality"

GARDEN PEAS

Hand Picked

There is a vast difference in "strains" of garden peas. You will find our stock "very superior," healthy, vigorous and true, much better than the average seed sold by wholesale seed dealers and jobbers. This year we offer some new English introductions that we have imported for our private trade—try them if you want "Highest Quality."

Single pound prices only are prepaid—add postage in larger quantity.

FIRST AND BEST

One of the earliest and most even strain, extra early peas maturing so well together. Vines vigorous and hardy, two and one-half to three feet high, bearing three to seven straight pods, each containing five to seven medium-sized, smooth peas of fair quality.

Large pkt. 10c; lb. 20c; 10 lbs. \$1.25

EARLIEST OF ALL, OR ALASKA

By careful selection and growing we have developed a stock of this smooth blue pea of unequalled evenness in growth of vine and early maturity of pods which are filled with medium-sized, bright green peas of good flavor. Vines two and one-half to three feet high. An invaluable variety for market gardeners. Very hardy and can be planted in the fall for very early crop.

Large pkt. 10c; lb. 20c; 10 lbs. \$1.25

BURPEE'S BEST EXTRA EARLY

Said to be very much the best strain of extreme early pea of the smooth-seeded variety; is very much sweeter and also earlier than Alaska. The vines make very quick growth, about 18 to 24 inches high. The pods are always well filled.

Large pkt. 10c; lb. 20c; 10 lbs. \$1.50

AMERICAN WONDER

The earliest of the dwarf, wrinkled varieties. Vines branching, about 10 to 12 inches high and covered with well filled pods of medium size, containing five to eight large, exceedingly sweet, tender and well flavored peas. A great favorite for planting in the small garden on account of its short, compact growth. We have taken great pains in growing our stock and know it to be much better than that usually sold.

Large pkt. 10c; lb. 25c; 10 lbs. \$1.75

IMPROVED PREMIUM GEM

The vines are of dwarf growth and produce an abundance of round, well filled pods of medium size only a few days after the American Wonder. The peas are of sweet, delicious flavor and excellent quality. One of the best for family use as it continues in bearing longer. Height 15 to 18 inches.

Large pkt. 10c; lb. 20c; 10 lbs. \$1.25

NOTT'S EXCELSIOR

A deservedly popular variety; an enormous yielder, and of the very choicest flavor; pods well filled with six to eight peas, packed very closely together; valued highly for the home garden; 15 inches high.

Large pkt. 10c; lb. 25c; 10 lbs. \$1.50

Be sure you read about Mulford's "Nitro-Germ" for inoculating pea seed. Increases the yield and improves the soil. (See page 29).

EARLY DWARF TELEPHONE

Of English origin and introduction. The striking features are its large pods and the way in which they are heaped up in ridges on the short, strong vines. The pods are nearly double the size of American Wonder, and are always well filled with large peas of most excellent quality. The vines are dwarf, strong and thrifty, require no support, making an ideal garden variety.

Large pkt. 10c; lb. 25c; 10 lbs. \$1.75

GRADUS

This variety combines the finest quality with extreme earliness, and is also very productive. It is hardy and can be planted fully as early as the smooth Peas. Grows vigorous and healthy, bearing pods fully as large as Telephone. The Peas are a beautiful light green, which color they retain after being cooked. Vines 3 1/2 to 5 feet in height and very prolific.

Large pkt. 10c; lb. 20c; 10 lbs. \$1.65

THOMAS LAXTON.

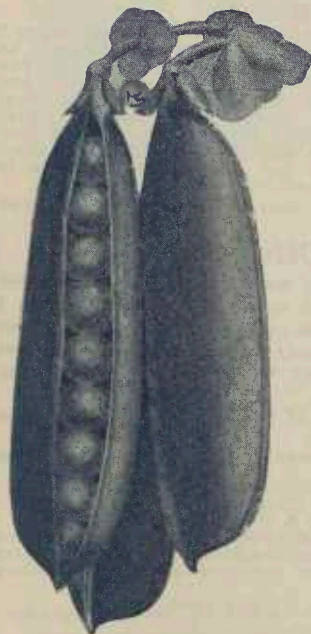
An early wrinkled variety of great merit. Vine three to three and one-half feet high. Pods large and long; uniformly well filled. The green peas are very large, fine colored and unsurpassed in quality.

We are certain that the earliness and productiveness of this pea needs only to be known to make it one of the most popular sorts for the market and home garden.

Large pkt. 10c; lb. 20c; 10 lbs. \$1.75

DWARF SUGAR (EDIBLE PODS).—A great favorite with many. Can be used in a green state like string beans; very sweet and melting.

Large pkt. 10c; lb. 25c; 10 lbs. \$2.00



Premium Gem

Market Gardeners who buy Peas in quantity should write us for prices, stating variety and amount wanted. Single pound prices only are prepaid. (See notes inside front cover).



## Highest Quality Garden Peas—Continued

Remember, a little extra cost at planting time will bring "dollars" or great satisfaction at harvest time.

Special—Single pound prices only, prepaid. Write for quantity prices, stating kind and amount wanted.

### DUKE'S DELIGHT.—A new dwarf, extra early Pea of unusual value.

In a garden test last summer it out-classed all other first early dwarf peas such as Notts and Gems in productiveness, size and fullness of pods, color, sweetness of flavor and general perfection. Height 12 to 15 inches. Be sure and try Duke's Delight. Large pkt. 15c; lb. 30c; 10 lbs. \$2.25

### SHERWOOD

A splendid new pea, produces in greatest profusion the largest pods of any early dwarf variety and the pods are filled with 8 to 10 large deep-colored peas of the most delicious flavor and quality. Very hardy. Height 15 to 18 inches.

Large pkt. 15c; lb. 30c; 10 lbs. \$2.50

### R. R.'S PROSPERITY

The Earliest Large Podded, Sweet Garden Pea to date.

A reselected imported strain of Gradus, Healthier and Stronger. This grand, large podded, extremely early, prolific variety is vigorous and robust, growing to a height of 4 feet. It is exceedingly early for a wrinkled variety, being only a few days later than the earliest smooth sorts.

The pods are very large, and are invariably well filled with from eight to ten sweet, luscious, tender wrinkled peas of large size and delicious flavor.

The peas remain tender and sweet for some time after they are large enough to use. Large pkt. 10c; lb. 25c; 10 lbs. \$2.00

### GOOD LUCK—Te-a-wha

You will certainly be delighted with this new variety. Sturdy, dark green vines, 2 feet high, covered with large pods containing 9 to 11 superb flavored peas that retain their color and flavor longer than most kinds. Ten days later than Duke's

Delight. Excellent for the home or market gardens.

Large pkt. 10c; lb. 25c; 10 lbs. \$2.00



Duke's Delight.

### GLADSTONE

A new English variety of "highest quality." Aside from Routledge Prize it can not be excelled for a main crop variety. The strong, sturdy vines grow about 4 feet and are simply covered with extra large long, pointed and curved pods (see cut), that are always full to the end, of large rich luscious peas, the like of which the average gardener has never tasted. A trial is all we ask.

Pkt. 15c; lb. 30c; 10 lbs. \$2.25; 25 lbs. \$5.00

## Special Introductory Pea Offer

In order to convince you of the superiority of our selected New Zealand grow pea seed we offer you 1 LARGE PKT. each kind on this page (5 kinds value 65c) for ONLY 50c; 1 lb. of each (value \$1.40) prepaid ONLY \$1.10. Remember this collection planted all at one time or successively WILL GIVE YOU A CONTINUOUS supply of the sweetest and most delicious peas you ever tasted. Special, any 3 pkts. 35c; any 3 1 lb. pkts. 75c, including Routledge Prize (next page) if you wish.

NOTE.—There are no pea pests or pea blight in the section of the country where our peas are grown.

USE "NITRO-GERM" on pea seeds before planting. (See page 29). It will increase the yield and improve your soil. IT'S GEEAT.

Ola, Idaho, March 2, 1914.

Routledge Seed & Floral Co.

Gentlemen: This is my second order for seeds to your firm. Your seeds gave good satisfaction last year, so I am ordering from you again this Spring.

Yours respectfully,  
MRS. E. S. MILLER.

Eddyville, Ore., Feb. 20, 1914.

Routledge Seed & Floral Co.

Gentlemen: My first order of seeds reached me in first-class condition. I have also tested a part of them and find a very satisfactory test.

Yours truly,  
C. G. DAMONS.

**REPORTS—GOOD OR BAD:** Will you help us to attain greater success by writing and telling us how our Seeds, Plants and Trees reach you, how they grow and how you like them? We will certainly appreciate it. Your criticisms, if you have any, as well as your praises are desired.

## Large Podded, Late or Main Crop Peas

Single pound prices postpaid—Special quantity price on request.

### ROUTLEDGE PRIZE

(See cut on Front Cover)

A new, sweet, wrinkled, mammoth podded Pea of extra value.

This reselected, new strain, grown especially for us in New Zealand will be found true to name. A sturdy, healthy grower. Vines and pods are a deep rich green. A bushel of Routledge Prize pods will shell out nearly twice as many peas as a bushel of Telephone. The vines are enormously productive, being completely covered with immense long pods, well filled with from 8 to 11 large peas of the richest flavor. This variety grows about 4 feet high and, as an abundant cropper, is superior to all other sorts.

Nothing in the line of peas excels the Routledge Prize in richness, sweetness and flavor; we are sure our customers will agree with us after testing this new pea. Try them and report results if you will.

Large pkt. 10c; lb. 25c; 10 lbs. \$1.75

### TELEPHONE

One of the most popular and largest peas we have. Vines attain a height of 4½ feet, bearing profusely the extra long, handsome pods; tender, sweet and superb flavor. We offer a very carefully rogued, select strain of unusual merit.

Large pkt. 10c; lb. 20c; 10 lbs. \$1.50

If your garden soil is heavy and hard to work up, use air slacked lime and some "Wonder" fertilizer, pg. 30.

READ ABOUT  
"Nitro-Germ" pg. 28  
and  
Lime Rock, pg. 31.

Gladstone (See opposite page).

Oretown, Ore., May 12, 1914.

Routledge Seed & Floral Co.

Dear Sirs: I raised a lovely garden from your seed last year.

Yours truly,

F. M. FRANKLIN.

**YORKSHIRE HERO.**—One of the largest, sweet, wrinkled kinds; vines strong and spreading; pods of good size and well filled; much in use, and has enjoyed a long popularity; medium late, bears a long time; height, 2½ feet.

Large pkt. 10c; lb. 20c; 10 lbs. \$1.25

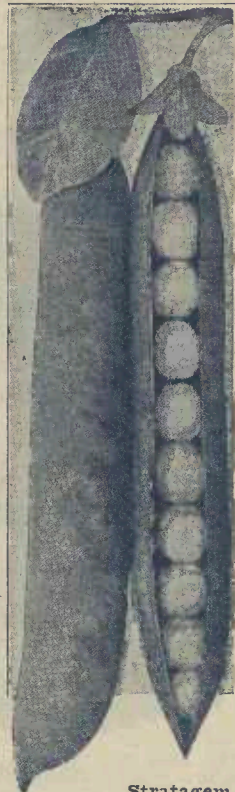
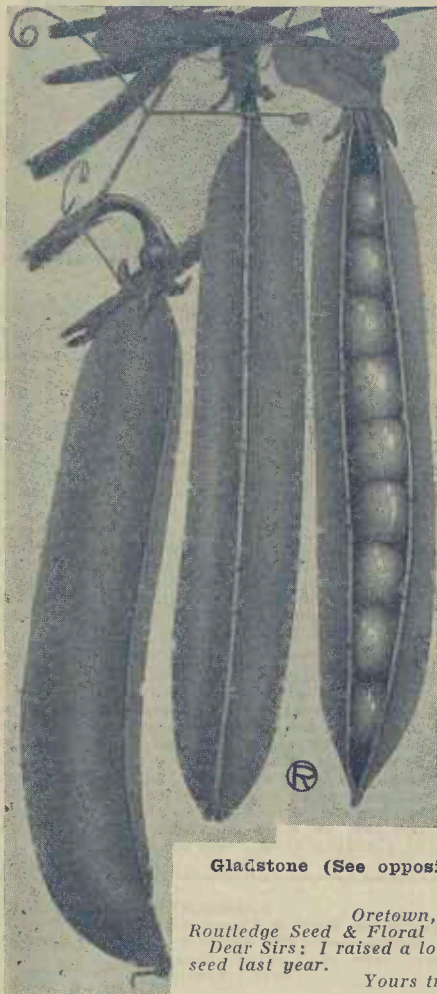
**STRATAGEM.**—A semi-dwarf variety with large leaves and large pods. The peas are dark green, wrinkled, and of good quality. It is planted in large quantities by gardeners for market. In quality it is unsurpassed, the peas when cooked being of the most delicious sweetness. Vines grow 18 inches to 2 feet high, and very stocky.

Large pkt. 10c; lb. 20c; 10 lbs. \$1.25

**CHAMPION OF ENGLAND.**—An old standard variety that is still unsurpassed for delicious flavor. Enormously productive; height 4 feet.

Large pkt. 10c; lb. 20c; 10 lbs. \$1.25

Market Gardeners who buy Peas in quantity should write us for prices, stating variety and amount wanted.



Stratagem.

# Routledge Seed & Floral Co.'s

## PURE SEED POTATOES



We offer a few varieties of special merit that we recommend to our friends and customers. We think it is folly to plant ordinary or common stock. Many gardeners insist on the best vegetable seeds, but plant any old kind of potatoes, not knowing whether they are early or late. Get a start of some of our select seed stock and you will be more than pleased with the results.

**ABOUT PRICES**—Prices are subject to important market changes. Ask for quotations on larger lots. Good, true, healthy stock of the best named Seed Potatoes are never plentiful and are always in demand. Order early, before stocks advance. We look for higher prices late in the Spring.

### EXTRA EARLY IRISH COBBLER.—Earliest of all).

The most reliable extra early white-skinned potato; so uniform in growth that every hill seems to ripen all at one time. Form oval and round; skin lightly netted, creamy white, and having few eyes, which are quite shallow; flesh pure white and of the finest quality; not excelled by any variety; its earliness, uniformity, large yield, fine quality and very handsome appearance make the Extra Early Cobbler a popular and profitable variety for market or home garden use; compact grower and can be planted closer.

Price not prepaid, add postage if wanted by mail, 1 lb. 10c, 4 lbs. 25c, 10 lbs. 50c, 50 lbs. \$1.50; 100 lbs. \$2.75

### EARLY WHITE PRIZETAKER

An excellent early Oregon sort, oblong in form, 4 or 5 inches in length, with white, smooth skin and few eyes. It is a very superior cooking potato, baked or boiled, cooking up dry and floury. Has a great advantage over other early potatoes, as its white skin, large size and good keeping qualities make it an ideal main crop variety, that sells at the best price. Plant early, the crop will be larger and better.

Price not prepaid, add postage if wanted by parcel post, 1 lb. 10c; 4 lbs. 25c; 10 lbs. 50c; 50 lbs. \$1.50; 100 lbs. \$2.50

**POTATO FERTILIZER.**—Have you ever tried using a good potato fertilizer, rich in phosphoric acid and potash, keeping account of the expense and the increased yield? Try it; you'll find it most profitable. The vines will be strong, healthy and productive, and the tubers even, smooth, solid and of better quality.

Use Beaver Brand "E" Potato Fertilizer, 500 lbs. or more per acre along the rows at planting time. See pg. 31.

Bandon, Ore., Feb. 20, 1914.

Routledge Seed & Floral Co.

Gentlemen: The seeds I got from you last year gave good satisfaction.

Yours respectfully,

A. B. McNITT.



Irish Cobbler, Extra-Early.

### EARLY ROSE

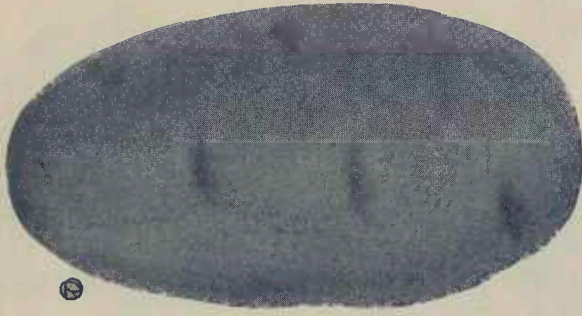
This variety has been a great favorite for many years. Our stock is as fine as can be obtained.

Price, not prepaid, add postage if wanted by parcel post, 5 lbs. 25c; 10 lbs. 40c; 50 lbs. \$1.35; 100 lbs. \$2.00

### NEW BOOK—"Practical Potato Culture."

This 128-page book by E. A. Rogers, an authority on the subject of Irish potatoes, is up-to-date and worth reading. Price postpaid 50c or Free with a cash order for Seed Potatoes amounting to \$5.00 or over, or 25c on a \$2.50 order

## Seed Potatoes—Continued—Main Crop Varieties



Pride of Multnomah.

### AMERICAN WONDER

The American Wonder is one of the best all-around white potatoes in cultivation and very popular for early or main crop. It is practically blight-proof, a strong grower, a great producer; tubers white, uniform in size, elongated, of excellent quality. It is a potato sought after and desired by our commission men, potato buyers, shippers and dealers, therefore a most profitable sort to plant. If planted early will be ready to use as soon as Early Rose, and has the advantage of being white.

Price not prepaid, add postage if wanted by parcel post 5 lbs. 25c; 10 lbs. 40c; 50 lbs. \$1.35; 100 lbs. \$2.25

### HUNDRED FOLD

A very profitable medium early or main crop. Some growers say it is superior to the American Wonder, which is a strong indorsement. Hundred Fold is an oblong potato, slightly flattened, white in color, a good looker and a quick seller, and a very heavy yielder. Of the finest quality, cooking up white and floury, either baked or boiled, and is an excellent keeper.

Price not prepaid, add postage if wanted by parcel post 5 lbs. 25c; 10 lbs. 40c; 50 lbs. \$1.40; 100 lbs. \$2.50

### SIR WALTER RALEIGH

We recommend this potato for a main late crop. It can be planted as late as July 1

### SWEET POTATO PLANTS

Rooted plants ready in May. The young plants should be set out in May or June in hills 5 inches above the ground level and 4 feet apart. A light soil and sunny location is preferable. Have your order booked now and be sure of plants when ready.

Plants 30c doz.; \$1.50 per 100 prepaid.

and still mature a good crop. Especially valuable for low land on this account. The tubers are good size, nearly round in shape but flattened—very few small ones. Skin is white; eyes few and very shallow. Excellent flavor and quality. It will do well on low ground or clay, where other potatoes would not be profitable.

Price not prepaid, add postage if wanted by parcel post 5 lbs. 25c; 10 lbs. 40c; 50 lbs. \$1.40; 100 lbs. \$2.50

### PRIDE OF MULTNOMAH

A superb, new, blight-proof potato.

This new potato, originating with one of our most reliable Oregon growers, has made a record for itself very quickly, and is in great demand.

Pride of Multnomah (see illustration) is the ideal in shape and color. It is reported by many to be the heaviest yielding, most even growing main crop variety. The skin is smooth and white, eyes shallow and cooking qualities unexcelled, being fine grained and of snowy whiteness either boiled or baked. Withstands drought better than most varieties.

Price not prepaid, add postage if wanted by parcel post; 5 lbs. 30c; 10 lbs. 50c; 50 lbs. \$1.50; 100 lbs. \$2.75

### BURBANK

A standard commercial variety, but the stock is "run out" in many localities. We offer a select strain of "Fancy" Burbank, which is a really good potato.

Prices not prepaid, 5 lbs 25c; 10 lbs. 40c; 100 lbs. \$2.00; quantity price on request. We sell Potato Planters. They save "back-ache." See Garden Tools, pgs. 104-108.

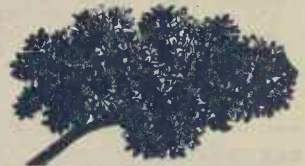
## PARSLEY

**CHAMPION MOSS CURLED.**—An English strain, with moss-curved foliage and a very vigorous grower.

Pkt. 5c; oz. 15c; 4-oz. 35c; lb. \$1.25

**ARLINGTON EXTRA CURLED.**—This is the very choicest strain obtainable, and is a selection from those plants having the greatest possible curl to the leaves and the darkest green color; a very vigorous grower, a healthy yielder; will stand heat and drought better than any other.

Pkt. 5c; oz. 15c; 4-oz. 40c; lb. \$1.25



Parsley Leaf.

## RHUBARB OR PIE PLANT

### BURBANK'S CRIMSON WINTER

The new variety, which has become very popular and profitable to the grower, has a delicious fruity flavor, is extremely hardy, very prolific and very quick growing. Pro-

**RHUBARB ROOTS.**—From October to June we can always supply Rhubarb Roots. Customers will save much valuable time by ordering roots instead of seed. For prices, etc., see page 87.

duces good stems all winter and spring.

**VICTORIA, OR MAMMOTH.**—Very large; most popular variety.

Pkt. 10c; oz. 60c; 4-oz. \$1.75

Pkt. 5c; oz. 15c; 4-oz. 45c; lb. \$1.50

## FRENCH GROWN RADISH SEED



**REMEMBER**—For a continuous supply of crisp, tender Radishes, sow seed every week, as they remain in "prime" condition only a few days after attaining full size.

**R. R.'s SCARLET GEM.**—This splendid radish is the very finest early strain of the round, bright red radishes. Nothing can surpass its table excellence or its beauty. The skin is bright scarlet, flesh pure white, crisp, tender and of delicious quality.  
Pkt. 5c; oz. 10c; 4-oz. 30c; lb. 65c

**SCARLET TURNIP, WHITE TIPPED (No. 5).**—A beautiful variety, deep scarlet with white tip. Very early, crisp and delicious. It is most attractive in appearance and cannot fail to give satisfaction; very popular as a market sort.  
Pkt. 5c; oz. 10c; 4-oz. 25c; lb. 60c

**SCARLET GIANT (No. 6).**—The largest early scarlet turnip-shaped radish. The flesh is a sparkling white, solid, crisp, juicy and of the mildest flavor. The bright, deep crimson color of the skin remains quite constant.  
Pkt. 5c; oz. 10c; 4-oz. 30c; lb. 65c

**EARLY SNOWBALL (No. 4).**—A grand improvement on the White Box or White Turnip Radish; very early, of a clear white color, solid, juicy, crisp, tender and unsurpassed in flavor.  
Pkt. 5c; oz. 10c; 4-oz. 30c; lb. 65c

**FRENCH BREAKFAST (No. 7).**—Very popular, crisp, tender and mild; grows about 2 inches long, stump rooted, tipped white.  
Pkt. 5c; oz. 10c; 4-oz. 25c; lb. 65c

**WHITE ICICLE (No. 3).**—This superb radish is pure white and most attractive. It is not only crisp and tender when young, but retains these qualities until the roots attain large size. It is ready for use almost as quickly as the early turnip-shaped sorts.  
Pkt. 5c; oz. 10c; 4-oz. 30c; lb. 75c

**LONG BRIGHTEST SCARLET, WHITE TIPPED (No. 1).**—The brightest and handsomest long scarlet radish known. Roots mature quickly and continue in good condition until full grown. Of excellent quality.  
Pkt. 5c; oz. 10c; 4-oz. 25c; lb. 65c

**Early Scarlet Turnip.**—Small top; of quick growth; mild and crisp.  
Oz. 10c; 4-oz. 25c; lb. 60c

**LONG SCARLET (No. 2).**—Grows perfectly straight and smooth, six to seven inches in length. Skin scarlet, very thin; the flesh crisp, brittle and of delightful flavor; the finest long red radish.  
Pkt. 5c; oz. 10c; 4-oz. 30c; lb. 60c

**WHITE STRASBURG.**—Even when comparatively small this variety is in good condition for use, and continues crisp and tender until matured, when the roots are four to five inches long and about two inches in diameter. This is considered one of the best large summer sorts.  
Pkt. 5c; oz. 10c; 4-oz. 30c; lb. 65c

### WINTER RADISHES

The merits of Winter Radishes are little appreciated. These grow to large size and keep well for winter and spring use. Sow seed in July and August. Early planting is not advisable.

**SAKURAJIMA.**—Japanese variety; grows very long and 2 to 3 inches in diameter. The skin is smooth and white, and the flesh is always mild, crisp and tender.  
Pkt. 10c; oz. 20c; 4-oz. 60c

**California Mammoth White.**—Pure white. The flesh is tender and crisp, keeping well through the winter.  
Pkt. 5c; oz. 10c; 4-oz. 30c; lb. 75c

**China Rose.**—Bright rose color, flesh firm and piquant; largest at the bottom. One of the best.  
Pkt. 5c; oz. 10c; 4-oz. 30c; lb. 75c

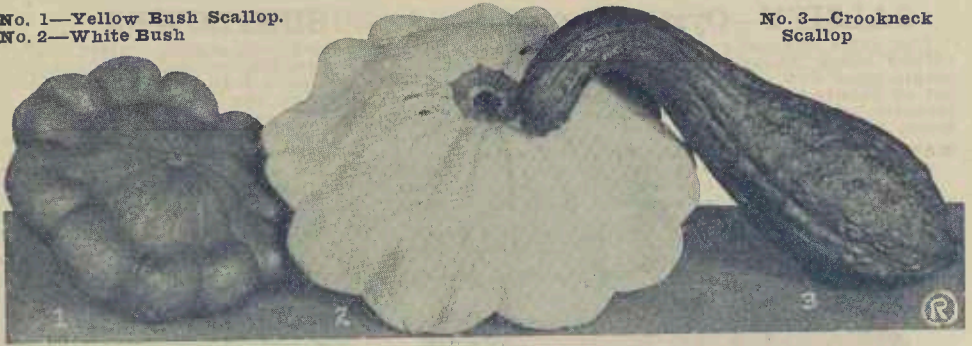
**Long Black Spanish.**—Very popular; latest, as well as the hardest. Roots of medium size, oblong, black.  
Pkt. 5c; oz. 15c; 4-oz. 25c; lb. 75c

**Round Black Spanish.**—Three or four inches in diameter; flesh white; good keeper.  
Pkt. 5c; oz. 10c; 4-oz. 25c; lb. 75c

Market Gardeners should write for our low prices in 10, 20 and 50-lb. lots.

No. 1—Yellow Bush Scallop.  
No. 2—White Bush

No. 3—Crookneck  
Scallop



## SQUASH

### MAMMOTH WHITE BUSH SCALLOP

The fruit is a beautiful, clear, waxy white; superior in size and beauty, and is quite uniformly warted. The handsomest of the scalloped squashes. The stock we offer is exceptionally true to type.

Pkt. 5c; oz. 10c; 4-oz. 30c; lb. 90c

### VEGETABLE MARROW

A large, oblong variety, producing fruit which is dark green at first, becoming marbled and striped with yellow and lighter green as they mature.

Pkt. 5c; oz. 10c; 4-oz. 30c; lb. 90c

### BOSTON MARROW

A popular variety with large oval fruit; skin bright reddish orange, with light cream netting; flesh orange, fine-grained and of excellent quality.

Pkt. 5c; oz. 10c; 4 oz. 30c; lb. 70c

### MAMMOTH CHILI

The largest of all squashes, growing to an enormous size, often weighing over 200 pounds, while its rich, fine flavored flesh insures its value for all purposes. Its size makes it valuable for stock feeding.

Pkt. 5c; oz. 15c; 4-oz. 40c; lb. \$1.25

### GOLDEN HUBBARD

The same in size, shape and quality as the well-known Hubbard Squash, except that it is a bright red or golden color and somewhat earlier. It is also a long keeper, considered by expert judges to be one of the very best fall and winter sorts yet introduced. Matures before the frosts; is

### YELLOW BUSH SCALLOP

A very early, flat, scallop variety of large size; color yellow; flesh pale yellow and well flavored. Has a very small seed cavity. Pkt. 5c; oz. 10c; 4-oz. 25c; lb. 90c

### GOLDEN SUMMER CROOKNECK

Early and prolific. The fruits are of the true crookneck type, heavily warted and of light golden color. One of the most popular sorts for home and market.

Pkt. 5c; oz. 10c; 4 oz. 30c; lb. 90c

## Fall and Winter Varieties

vigorous and wonderfully productive. In flavor it has no equal.

Pkt. 5c; oz. 15c; 4-oz. 40c; lb. \$1.25

### NEW DELICIOUS

This winter squash resembles the Hubbard; flesh exceedingly thick, compact, fine-grained; color golden orange; tender, cooking sweet and rich, whether steamed, baked, boiled or made into pies.

Pkt. 5c; oz. 15c; 4-oz. 40c; lb. \$1.25

### TRUE HUBBARD

One of the best of the winter squashes. Vines vigorous and very productive. Fruit large, heavy, moderately warted, with very hard shell. Skin uniformly dark bronze green. Flesh bright orange-yellow, fine grained, thick, dry and richly flavored. Can be kept in good condition until spring. Our seed is carefully selected and is much superior to most offered.

Pkt. 5c; oz. 15c; 4-oz. 35c; lb. \$1.25

## SPINACH

**IMPROVED THICK-LEAVED.**—A variety which grows very rapidly, forming a cluster of large, very thick, slightly wrinkled leaves of fine color and quality when cooked; best for market gardeners.

Pkt. 5c; oz. 10c; 4-oz. 15c; lb. 30c

**LONG STANDING.**—An improved variety of excellent quality for general use; slow going to seed.

Pkt. 5c; oz. 10c; 4-oz. 15c; lb. 30c

### BLOOMSDALE SAVOY LEAVED

—Very early; of upright growth; leaves pointed; plant in the autumn for spring use; grows quickly.

Pkt. 5c; oz. 10c; 4-oz. 15c; lb. 30c.

**PRICKLY WINTER.**—Very desirable, very hardy and easily grown; bears large, smooth broad pointed leaves. Color, bright green. A fine winter and spring variety.

Pkt. 5c; oz. 10c; 4-oz. 15c; lb. 30c.



Improved Thick Leaved.

When it comes to the cheapest prices, we are "not in it;" we don't want to be; but, when you want "quality," something "better," that's where we win out. Try us.

## SALSIFY—Oyster Plant

The roots are long and tapering; when cooked has a flavor like oysters. If more people knew how many fine dishes are made out of Salsify Roots it would be much more extensively planted. Same culture as carrots. Roots good all winter.

**MAMMOTH SANDWICH ISLAND.**—The best variety of Salsify, being very smooth, of fine quality, pure white and extra large size. Pkt. 5c; oz. 15c; 4-oz. 40c; lb. \$1.25

## SUNFLOWER

Every farmer and poultry raiser should raise sunflowers, for the seed is very fattening and contains a high percentage of protein, an excellent egg food.

**MAMMOTH RUSSIAN.**—The largest and best for seed. Large pkt. 5c; 4-oz. 10c; lb. 35c

**BIG CROPS** are produced by using "Beaver Brand" Fertilizer, pg. 31. "Wonder" Odorless Fertilizer, pg. 30.

## TOMATO

Tomato Plants in any quantity. See Vegetable Plant list, page 23.



### COMET

**The Best Tomato for Greenhouse Forcing.**—A recent variety, matchless in form and color. Beautiful, smooth, round fruit in great abundance. Color a rich scarlet-red. Sets very freely in bunches. Equally good for outdoor culture as for forcing.

Pkt. 15c; ½-oz. 40c; oz. 75c

### CHALK'S EARLY JEWEL

**The largest, smoothest and finest flavored, extra early bright red tomato, about 10 days later than Spark's Earliana.** It is a heavy cropper with tomatoes of larger size, sweeter flavor, produced throughout the season. The plants are of bushy, compact growth, heavily loaded with fruit. The tomatoes are just right for market; very solid and deep through, being almost round; ripening to the stem without cracks or green core. The flesh is thick, solid, of fine flavor, with few seeds.

Pkt. 10c; oz. 25c; 4-oz. 75c

### ROUTLEDGE'S EARLY OREGON

Very hardy and succeeds everywhere. The Early Michigan, Fordhook and Atlantic Prize were good sorts "in their day," but the Early Oregon is superior to these in shapeliness, color, size, smoothness, solidity and flavor, as well as being earlier. Those wishing to have the earliest good tomato should raise our Early Oregon. Highly recommended for the home or market gardener. Try it; you will not be disappointed.

Pkt. 10c; ½-oz. 20c; oz. 30c; 4-oz. \$1

**SPARK'S EARLIANA.**—The earliest tall variety, forming ripe fruit much earlier than any other variety. The fruit is large, smooth, of a bright scarlet color and of fine quality. Very valuable for early market use. Similar, but far superior to Atlantic Prize. Pkt. 10c; oz. 25c; 4-oz. 75c

**DWARF CHAMPION.**—Forms a strong, erect, bushy plant 2 feet high; often sold as Tree Tomato. Fruit smooth, medium sized, solid and of good flavor. Pkt. 5c; oz. 30c; 4-oz. \$1.00

**STONE.**—Grown very extensively for a main crop by market gardeners; very large, smooth and solid, of a bright red color and a heavy yielder; of excellent quality and not subject to rot. Pkt. 5c; oz. 25c; 4-oz. 75c

**YELLOW HUSK OR GROUND CHERRY.**—Used for preserves and eating from the hand. The seed we offer is that of the true Yellow Ground Cherry, not the purple-fruited sort, which is scarcely edible. Pkt. 5c; oz. 30c

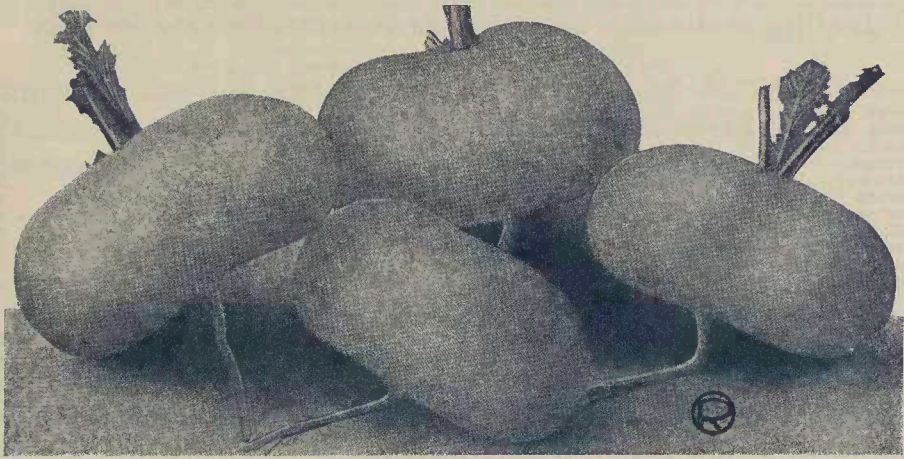
**YELLOW OR RED PEAR.**—Used for preserves and to make "tomato figs." Fruit distinctly pear-shaped and of excellent flavor. Pkt. 5c; oz. 30c

**RED OR YELLOW CHERRY.**—Fruit small, about five-eighths of an inch in diameter; perfectly round and smooth; fine for pickles and preserves. Pkt. 5c; oz. 30c

Increase the yield and quality of your Tomatoes by using a good plant food. See page 30. **WONDER ODORLESS FERTILIZER** will do it; a spoonful to a plant.

## TURNIPS of "Highest Quality"

For spring use sow very early in rich, loose ground. They must make a quick growth to be tender and sweet. For fall and winter, use sow in July, August and September.



White Flat Dutch Turnips.

**EXTRA EARLY PURPLE TOP MILAN.**—This variety is ready for the table sooner after planting than any other; flesh white, firm and delicate.

Pkt. 5c; oz. 15c; 4-oz. 35c; lb. \$1.00

**WHITE MILAN.**—Same as above, but pure white; sweet and tender.

Pkt. 5c; oz. 15c; 4-oz. 35c; lb. \$1.00

**EARLY PURPLE TOP (Strap Leaved.)**—One of the best and most universally grown; flesh firm, but very tender and sweet; of quick growth, it is soon ready for the table and keeps well.

Pkt. 5c; oz. 10c; 2-oz. 15c; 4-oz. 20c; lb. 60c

**EARLY WHITE FLAT DUTCH.**—A leading white-fleshed variety and one of the best, either for the family, market garden or field crop; it is medium size and produces a large crop; the flesh is firm, but tender and of a superior rich, buttery flavor; a good keeper.

Pkt. 5c; oz. 10c; 2oz. 15c; 4-oz. 20c; lb. 50c

**EARLY SNOWBALL.**—A superior table variety, meltingly tender, with snow-white flesh. This delicious turnip is one of the best varieties ever offered. Snowball matures six weeks after sowing, the bulb being small, smooth and perfectly globular.

Pkt. 5c; oz. 10c; 2-oz. 15c; 4-oz. 25c; lb. 60c

**WHITE EGG.**—Is perfectly smooth, of a pure clear white; a very choice kind for table use; of excellent flavor, sweet and mild; pulls clean from ground; thin, snow-white skin.

Pkt. 5c; oz. 10c; 2-oz. 15c; 4-oz. 20c; lb. 60c

**ORANGE JELLY, OR GOLDEN BALL.**—Undoubtedly one of the most delicate and sweetest yellow fleshed turnips; not large in size, but firm, crisp and most excellent flavor; keeps well and is superior as a table variety.

Pkt. 5c; oz. 10c; 2-oz. 15c; 4-oz. 20c; lb. 60c

**AMBER, OR YELLOW GLOBE.**—One of the best yellow-fleshed varieties; skin clear yellow; is of good size and fine flavor.

Pkt. 5c; oz. 10c; 2-oz. 15c; 4-oz. 20c; lb. 60c

**PURPLE TOP WHITE GLOBE.**—A very heavy cropping, globe-shaped variety, with white skin and flesh; excellent flavor and much in favor with the market gardeners.

Pkt. 5c; oz. 10c; 2-oz. 15c; 4-oz. 20c; lb. 50c

**YELLOW ABERDEEN.**—Round, medium size; light yellow; produces a large crop; is hardy and keeps well; flesh very firm, but tender and sweet; a great favorite with the dairymen.

Pkt. 5c; oz. 10c; 2-oz. 15c; 4-oz. 20c; lb. 50c

**COWHORN (Long White).**—Slightly crooked, pure white, except a little shade of green at the top; grows half out of the ground and is of very rapid growth. Has proved itself one of the best stock turnips ever introduced in Oregon.

Pkt. 5c; oz. 10c; 2-oz. 15c; 4-oz. 20c; lb. 50c

## TOBACCO

Culture practically same as cabbage.

**Havana or Connecticut Seed Leaf.**—Both good, hardy varieties for general planting here.

Pkt. 5c; oz. 25c

## RUTABAGA, OR SWEDE TURNIPS

**IMPROVED AMERICAN PURPLE TOP.**—The leading and most popular variety, being very distinct in type, attaining a wonderfully large size; immense yielder; the flesh is very firm, superior in every way; valuable alike for all purposes.

Pkt. 5c; oz. 10c; 2-oz. 15c; 4-oz. 20c; lb. 50c  
5 lbs. at 45c

**WHITE SWEET GERMAN.**—This variety is most excellent either for table or stock; it grows to a very large size; flesh white, solid, of a firm texture, sweet and rich; an excellent keeper.

Pkt. 5c; oz. 10c; 2-oz. 15c; 4-oz. 20c; lb. 60c

For feeding stock in fall and winter there is nothing superior to turnips and rutabagas, as they are much liked by all kinds of stock, and serve to keep them in good condition.



## HERB SEEDS

Pot, Sweet and Medicinal

Herbs in general delight in rich, mellow soil. Those marked with a (\*) are perennial. We offer some of the most useful and popular. They should be cut on a dry day, just before they come into full bloom, and tied in bunches and hung up or spread thinly on a floor where they can dry quickly.

ALL THE FOLLOWING HERBS, 5c PER PACKET.

	Oz.	
*Anise.—Seeds aromatic; used medically.....	.20c	*Hysop.—.....
*Balm.—For culinary purposes.....	.20c	*Lavender.—For fragrance.....
*Basil.—Sweet; for flavoring soups.....	.20c	*Marjoram.—Sweet; for flavoring.....
Borage.—For flavoring; also bee pasture.....	.15c	*Fenhyroyal.....
Caraway.—For flavoring.....	.15c	*Rosemary.—Aromatic oil.....
*Catnip (Cat Mint).—Mild nervine.....	.40c	*Summer Savory.—For flavoring.....
*Coriander.—Used for flavoring.....	.10c	*Sage.—For tea flavoring and dressings.....
Dill.—Used medicinally and for pickles.....	.10c	Saffron.—For dyeing and powder.....
Dandelion.....	.Pkt. 10c; 75c	Tarragon.—For seasoning.....
*Fennel.—Flavor of celery; for tonic.....	.10c	*Thyme (Broad-Leaved).—For soup.....
*Horehound.—Bitter; for tonic.....	.30c	*Wormwood.—Medicinal use.....

### HERB SEEDS FOR FLAVORING.

Anise.—For flavoring ¼-lb. 15c; lb. 45c	Dill Seed.—Used to flavor ½-lb. 25c; lb. 45c
Caraway.—For use bakers ¼-lb. 15c; lb. 35c	Mustard.—Yellow. Oz. 10c; ¼-lb. 15c; lb. 35c
Coriander.—For flavoring ½-lb. 20c; lb. 35c	Poppy Seed.— ½-lb. 25c; lb. 35c

Chewelah, Wash., May 28, 1914.

Routledge Seed & Floral Co.

Gentlemen: I have just used up a bed of your Icicle Radishes. I got the seed from you early in the Spring and planted them about the first of April, and I never saw such a fine tasting, crisp and quick growing radish in all my twenty years of gardening, and they only had half a show, for the soil is poor and run down.

We are also using your May King Lettuce. I think it cannot be beat for this climate. Never tried it before. And your New Oregon Strawberry is growing out of sight. We have had snow, ice, frost and all kinds of cold rains. yet they just keep growing, making fine large plants, and one stock I let the berries grow on, and they are fine and large and will soon be ripe.

Very truly yours,

MRS. J. C. ACHISON.

Lewiston, Idaho, April 30, 1914.

Routledge Seed & Floral Co.

Gentlemen: I beg to acknowledge receipt of the shipment of seeds you mailed me, being a duplicate of the shipment which never reached me. I certainly appreciate your business methods, and it is a pleasure to deal with such a firm as yours.

Very truly yours,

GOSTA AXELSON.

Amity, Ore., May 11, 1914.

Routledge Seed & Floral Co.

Gentlemen: Wish to say I ordered tomato plants from you last season and they arrived in good condition, and by the 14th of August had ripe tomatoes in plenty and was greatly pleased with the crop harvested. I am therefore sending you my order again, hoping it will prove as good.

Respectfully,

MRS. G. V. QUERINER.

## VEGETABLE PLANTS

We grow large quantities of choice vegetable plants, and can supply all of the varieties listed below, in their proper season, in most any quantity. We can supply all vegetable plants in two grades—plants direct from the seed beds and those that have been transplanted into shallow boxes. Transplanted plants are much stronger and better rooted, and are well worth the price, especially in the early part of the season. We can supply most any of the leading sorts. Tell us your choice of varieties, and we will send it or give good substitute. **NO PLANTS SENT C. O. D.**

	By Express		
	Postpaid Not Prepaid		
	Dozen	100	1000
<b>CABBAGE</b>			
Early kinds, transplanted \$	.20	\$1.00	\$7.50
Late, not transplanted....	.15	.60	5.00
Add 20c per 100 for Cabbage Plants by mail.			
<b>CAULIFLOWER</b>			
Early Snowball, transplanted.....	.25	1.50	12.00
Early Snowball, not transplanted.....	.25	1.25	10.00
Late kinds, transplanted.....	.25	1.25	10.00
Late kinds, not transplanted.....	.25	1.00	7.50
Add 20c per 100 for Cauliflower Plants by mail.			
<b>CELERY</b>			
Leading kinds, transplanted.....	.25	1.00	7.50
Not transplanted.....		.75	6.00
Add 20c per 100 for Celery Plants by mail.			
<b>PEPPER</b>			
Pepper Plants.....	.25	1.00	7.00
<b>SWEET POTATO PLANTS</b>			
Sweet Potato Plants.....	.30	1.00	7.00
<b>TOMATOES</b>			
Leading kinds, transplanted.....	.30	\$1.25	\$10.00
Not transplanted.....		.75	7.00
Add 25c per 100 for above plants by mail.			
Special—Pot-grown tomato plants cannot be mailed safely; large and strong; from 2½-in. pots; 10c each; \$1.00 doz.; 3-in. pots, 15c each; \$1.50 doz.; 4 to 5-in. pots, 25c each, \$2.50 doz.; must go by express, charges collect.			
<b>CHIVES</b>			
Chives (Schnittlauch)—Per bunch, postpaid.....			.25c

**NOTE—Special Low Prices on Vegetable Plants in 5, 10 or 20 M. lots—Write.**

# THE MULFORD NITRO--GERM

Simply mix with water and apply to seed or soil—full instructions on each package.

Improves the Soil and Increases the Crops of Alfalfa, Clovers, Vetches, Gardens, and Field Peas, Sweet Peas, Garden and Field Beans and other legumes. (See list below.)

SCIENTIFICALLY PREPARED AND TESTED

Small Cost—Large Returns—Easy to Use—No Labor Expense



Uninoculated Alfalfa Inoculated  
Planted September, 1912; photographed (same scale)  
April, 1913. Plant on left not inoculated; plant on right  
inoculated with the **Mulford Nitro-Germ**. All other con-  
ditions identical. **The contrast speaks for itself.**

The U. S. Department of Agriculture and many State Agriculture Experiment Stations recommend inoculation of legumes with nitrogen-fixing bacteria to induce a prompt “catch” and increase the yield.

The **Mulford Nitro-Germ** contains nitrogen-fixing bacteria, which form nodules on the roots of alfalfa (and all other field and garden legumes) and act by collecting nitrogen from the air and converting it into nitrates—food for soil and plants. It puts more into the soil than the growing crops need and it won't leach out; enriches the soil for succeeding crops of all kinds. **Government tests** have proved this scientific method of immense value to farmers and truckers.

The **Mulford Nitro-Germ** is prepared and tested by experts, in the biological laboratories of H. K. Mulford Co., Philadelphia, U. S. A., with the same degree of care as Mulford Anti-toxins, Serums, Vaccines, etc., which are standard all over the world.

Be sure to **ALWAYS SPECIFY the PARTICULAR LEGUME** for which **THE MULFORD NITRO-GERM** is desired, as a different strain of bacteria is required for each legume.

- |                   |               |              |                   |
|-------------------|---------------|--------------|-------------------|
| ALFALFA (Lucerne) | RED CLOVER    | SPRING VETCH | GARDEN BEANS      |
| CRIMSON CLOVER    | ALSIKE CLOVER | WINTER VETCH | LIMA BEANS        |
| SWEET CLOVER      | COW PEAS      | SWEET PEAS   | Lupins and others |
| WHITE CLOVER      | FIELD PEAS    | GARDEN PEAS  |                   |

Those printed in CAPITAL LETTERS can be shipped immediately from stock. The others will be prepared to order and can be supplied in a few days.

## Reduced Prices for 1916

Increased and improved facilities enable the manufacturers to make the following prices: Garden Size, about ¼ - acre, 50c; One acre size, \$1.50; Five acres size, \$5.00. Not returnable.

Simple and complete instructions with each package.

**WHY BUY EXPENSIVE COMMERCIAL NITRATES WHEN YOU CAN GROW LEGUME CROPS AND THUS INCREASE THE YIELD AND AT THE SAME TIME REPLACE THE NITRATES, ENRICH AND RENOVATE THE SOIL BY NATURE'S OWN METHOD.**

Write today for free booklet giving valuable information regarding the nitrogen-fixing bacteria and describing the preparation and use of **THE MULFORD NITRO-GERM**.

## "WONDER ODORLESS FERTILIZER."

The best fertilizer for the city gardener; clean and odorless. Remember, it's all fertilizer; a wonder in action, a giant in strength, and the small amount necessary to use makes it the cheapest and most efficient High-Grade Fertilizer on the market, and last, but not least, IT IS ODORLESS.

In "Wonder" you get the latest scientific discovery in plant food, something which gives results, something that astonishes. This "Wonder" fertilizer is the result of years of study and trials by a fertilizer expert, in fact, he is the same person that sold us "Wilgrow" a few years ago. Wilgrow in its original form was an excellent fertilizer and we sold tons and tons of it. The objection was the odor. In "Wonder" we have a meritorious and odorless concentrated fertilizer, put up in small packages, thereby making its distribution a cheap and easy matter. Being a concentrated fertilizer, only a very small amount is required to produce the largest yield. (See general directions below.) There's no use of your paying dray and freight charges on bulky fertilizers containing three-fourths sand, ash or dirt filler. "Wonder" is the pure "dope"—clean and easy to apply. We guarantee it to give results.

The small amount of "Wonder" required reduces the expense of fertilizing to about one-half the cost of manure or the average commercial fertilizers on the market.

### GENERAL DIRECTIONS FOR USE.

One 25-lb. bag of "Wonder" is equal to 100 lbs. of the ordinary commercial fertilizer.

One 25-lb. bag will go over a space of your lawn 50x50 or 2500 square feet, and is sufficient for same, applied once yearly.

One 25-lb. bag will care for six full-bearing fruit trees applied once yearly.

One tablespoonful will be sufficient for an ordinary rosebush, giving you beautiful colored flowers and a healthy plant.

One tablespoonful will be sufficient for a melon, potato or tomato vine.

A small teaspoonful of "Wonder" is sufficient for a 6-in. potted plant, palm or fern, and there will be no odor to scent the house.

Use "Wonder" Fertilizer on all flower and vegetable plants, berry bushes and vines, shrubs and roses, grains, grasses, hops, etc., and remember it takes only one-fourth as much "Wonder" as it does of the bulky commercial fertilizers generally used.

**PRICE OF "WONDER,"** not prepaid or delivered: 2-lb. packages 25c; 25-lb. DRILL BAGS, \$1.75. ADD POSTAGE if wanted by mail. DELIVERED anywhere in Portland or to any Depot or Boat for \$2.00.

## Other Fertilizers

Prices subject to market changes—your money's worth always sent.

### PURE PULVERIZED SHEEP MANURE.

A pure, natural and nutritious manure. Immediate and lasting in effect. Excellent for mixing with the soil for greenhouse plants or flower beds. In the vegetable garden it promotes a rapid, steady growth until maturity. It makes a rich liquid manure.

Price: 10 lbs. 25c; 50 lbs. \$1.25; 100-lb. bag \$1.75; low price per ton.

**HIGH-GRADE BONE MEAL.**—This is a special brand we have put up for our trade. It is ground fine, hence acts quickly. Free from acid and a superb article. It is made from bone accumulated in large slaughterhouses, and should not be compared with the bone meal made from cattle heads and feet gathered upon the western prairies.

Price: 5 lbs. 30c; 10 lbs. 50c; 50 lbs. \$1.50; 100 lbs. \$2.00.

**LAND FLASTER.**—Used largely on grass and clover crops. Not sold in less than 100-lb. sacks. City delivering extra.

Price: 100 lbs. \$1.00; 500 lbs. \$4.00; 1000 lbs. \$7.50; ton \$14.00.

**MURIATE OF POTASH.**—One of the best orchard fertilizers known, and used largely for fruit stocks.

Price: 10c; 10 lbs. 75c; 100 lb. prices on request.

**SULPHATE OF POTASH.**—A desirable form of potash, especially valuable for potatoes and any root crops, such as beets, turnips, etc., also cabbage, etc. Use 50 to 400 lbs. per acre.

Price: 1b. 10c; 10 lbs. 75c; 100 lb. prices on request.

**NITRATE OF SODA.**—A fertilizer for all crops. It is very quick in action, and hastens maturity of crops fully two weeks. Being quickly soluble, it should not be applied until the plants are above ground. Use 100 to 200 pounds per acre as a top dressing on vegetables, such as celery, tomatoes, cucumbers, lettuce, etc.

Price: 1b. 10c; 5 lbs. 40c; 25 lbs. \$1.25; 100 lbs. \$4.00.

**SUPERPHOSPHATE.**—This is a concentrated form of phosphoric acid, and it is actually the cheapest form in which to buy phosphoric acid.

Price: 1b. 10c; 5 lbs. 40c; 40 lbs. \$1.25; 100 lbs. \$2.00.

**LIME ROCK.**—Lime is an indirect soil improver and very valuable conditioner. Lime Rock is a convenient form to apply.

Price: 10 lbs. 50c; 50 lbs. \$1.25; 100 lbs. \$1.50.

FREE

20 pg. Book

Tells All.



"Wonder Trade Mark"

Ask for "Wonder" 20-page booklet that gives plain facts and full information and directions for all purposes. FREE.

You must feed your plants and trees if you want to get the best and most profitable crops.



**"Beaver Brand" Animal Fertilizer**

Properly prepared and carefully mixed and put up under the new state fertilizer law with guaranteed analysis. Best and cheapest commercial fertilizer on the market, quality and price considered. Low prices by the ton.

**ROSELAWN.**—Prepared especially for use on lawns, also excellent for rose bushes and home gardens. A quick acting yet lasting fertilizer; high grade, properly prepared, ground fine and should be scattered broadcast on the lawn at the rate of 100 lbs. to the average city lot, when making a new lawn or about half the amount as a top dressing in the spring, using the balance for bushes and garden. Put up in 50 and 100-lb. sacks, also in 10-lb. patent cover air-tight cans that can be carried home on a street car.

**Prices:** 10-lb. pails, 50c; 50-lb. sacks \$1.75; 100-lb. sacks \$3.00.

**GENERAL GARDEN FERTILIZER—"D."**

Practically all garden truck requires a good percentage of phosphoric acid and potash. "BEAVER BRAND D" Animal Fertilizer is prepared especially for gardens and the following formulae developed after much investigation. In comparing prices, note carefully the very high **Guaranteed Analysis:** Ammonia, 4 per cent; phosphoric acid, 9.29 per cent; potash, 6 per cent.

**Prices:** 50-lb. sacks \$1.50; 100-lb. sacks \$2.50; 500 lbs. \$11.50.

**POTATOES AND ROOTS—"E."**

These products require a good percentage of phosphoric acid and potash, with a much less percentage of nitrogen. Therefore use BEAVER BRAND "E" Fertilizer. **Guaranteed analysis:** Ammonia, 3.04 per cent; phosphoric acid, 11.05 per cent; potash, 12 per cent.

**Prices:** 50-lb. sacks \$1.50; 100-lb. sacks \$2.50; 500 lbs. \$11.00. Low price by the ton.

**VINES AND BUSHES—"A."**

To produce a good, healthy body and both quality and quantity in fruit, all vines and bushes should be well fertilized. They draw phosphoric acid very heavily from the soil. We recommend BEAVER BRAND "A" Fertilizer. **Guaranteed analysis:** Ammonia, 3 per cent; phosphoric acid, 12.70 per cent; potash, 3 per cent.

**Prices:** 50-lb. sacks \$1.50; 100-lb. sacks \$2.50; 500 lbs. \$11.00.

**FRUITS AND BERRIES—"B" or "C."**

Fruits and berries must have a good supply of phosphoric acid and potash, particularly phosphoric acid, to insure the best results both as to quality and quantity. If you cannot fertilize all of your land, at least make a small trial. On the above crops which are doing fairly well, we recommend BEAVER BRAND "B" Fertilizer, to maintain the fertility and increase quality and quantity. Where the crops have been very poor, use BEAVER BRAND "C" Fertilizer, to recover fertility.

Guaranteed Analysis.	"B" Pct.	"C" Pct.
Ammonia .....	2	3
Phosphoric Acid .....	12.14	11.22
Potash .....	3	4.50

**Prices:** 50-lb. sacks \$1.25; 100-lb. sacks \$2.25; 500 lbs. \$10.50. NOTE—"C" is 10c per 100 higher.

**SPECIAL FERTILIZER FOR HOPS—"A" or "E."**

We furnish two brands of Fertilizer for Hops, one with a very high percentage of potash and the other with a very small percentage of potash, phosphoric acid being the same in both. Hops are known to be great feeders on phosphoric acid from the land. The average hop crop removes seventy-five pounds per acre from the soil. This has to be replaced. For hops on clay soil and soil containing considerable potash, we recommend BEAVER BRAND "A" SPECIAL Hop Fertilizer, but for hops on all other lands we recommend BEAVER BRAND "E" Fertilizer.

"A" Special	Guaranteed Analysis.	Pct.	"E," Pct.
Ammonia .....	4	3.04	
Phosphoric Acid .....	11.05	11.05	
Potash .....	2	12	

**Prices, "A" Special:** 50-lb. sacks \$1.25; 100-lb. sacks \$2.25; 500 lbs. \$10.00. Price of "E": 25c per 100 more. Low prices by the ton.

**SPECIAL ONION FERTILIZER—"E."**

Onions are great users of phosphoric acid and potash, using more potash per acre than the average hop crop and as much as a potato crop. On account of intensive farming of onions, the supply of phosphoric acid and potash is very quickly decreased. To hold up your quantity and quality of crops you must feed them more plant food. We recommend BEAVER BRAND "E" Fertilizer. **Guaranteed analysis:** Ammonia, 3.04 per cent; phosphoric acid, 10.05 per cent; potash, 12 per cent.

**Prices:** 50-lb. sacks \$1.50; 100-lb. sacks \$2.50; 500 lbs. \$11.00. Low price by the ton.

**TANKAGE—"Beaver Brand" Dried and Ground.**

This is a very highly concentrated tankage, analyzing 10 per cent ammonia and around 20 per cent calcium phosphate. Low price by the ton.

**Prices** 100-lb. sacks \$2.50; 500 lbs. \$12

**DRIED GROUND BLOOD—"Beaver Brand."**

This is an A No. 1 product and contains a very low percentage of moisture and highest possible percentage of nitrogenous material. **Guaranteed analysis,** ammonia 16½ per cent.

**Prices** Lb. 10c; 5 lbs. 35c; 10-lb. sacks 60c; 50-lb. sacks \$2.20; 100-lb. sacks \$3.75

Most of the above fertilizers should be used at the rate of 300 to 500 lbs. or more per acre. It will pay, and pay well.

## LAWN GRASS SEED

Though we offer separately, seed of many of the grasses suitable for the lawn, we consider as very erroneous the somewhat prevalent idea that any single variety of grass seed is preferable or equal to a mixture.

**NOTE.**—We will prepare special mixtures for shady places, low, wet soils, very dry soils and terraces. Just mention it when ordering.

Lawn Mowers and Garden Tools, pgs. 104-108.



### R. R.'s Evergreen Lawn Grass

To obtain a good Lawn Grass Mixture, it is necessary that the best possible seed of fine grasses be used in the combination, embracing such varieties as are of neat, close growth, extreme hardiness, and adapted to produce a quick, permanent sod. Judicious selection of seed, knowledge of the habits, vigor, quality and hardiness of varieties used in the mixture can only be gained by thorough and practical tests under different climatic and soil conditions. After more than 16 years' experience, we offer our Evergreen Lawn Grass Seed Mixture, composed of a thoroughly balanced combination of various native and foreign fine-leaved, deep-rooting grasses of interweaving habit, that will flourish under varied soil and climatic conditions, and which may be depended upon to produce a beautiful, compact evergreen sod that will resist tramping and hard usage, and at the same time present that handsome, velvety appearance so much desired.

**PRICE, 40c per lb. postpaid. 10 lbs. or more NOT PREPAID, at 35c lb.**

**Note.**—You better spend a few cents or a dollar extra on the seed you buy and have a fine lawn that you'll be proud of. Sow 1 pound seed to 15 feet square for best results.

#### FAIR GREEN LAWN GRASS

For those that are not so particular or for ordinary purposes, this mixture will give satisfaction. It is not a cheap mixture; far from it. We know it is equal to most fancy or special mixtures being offered.

Per lb. 30c; postage extra; 10 lbs. or more, not prepaid at 25c lb.

## CLOVER SEEDS—ALFALFA

**RED (Trifolium Pratense).**—Hardy, and succeeds well on any good soil.  
10 lbs. \$2.00; 100 lbs. \$19.00. Per lb. postpaid, 30c

**WHITE (Trifolium Repens).**—Used largely in lawns and permanent pastures; accommodates itself to a great variety of soils. Fancy clean seed is very scarce and high; beware of low-priced seed this season.  
Fancy Seed, 10 lbs. \$5.00. Per lb., postpaid, 60c

**CRIMSON OR SCARLET CLOVER (Trifolium Incarnatum).**—A thrifty annual. It germinates quickly, grows rapidly and stools abundantly.  
10 lbs. \$2.00. Per lb., postpaid, 30c

**SWEET OR BOKHARA CLOVER.**—Per lb., postpaid, 40c. Write.  
Write for 100-lb. prices when ready to buy.

**ALSIKE (Trifolium Hybridum).**—Valued highly for sowing with other grasses. Excellent for hay and pasture; valuable for bees; resists both drought and excessive moisture.

10 lbs. \$2.00; 100 lbs. \$17.00. Per lb. postpaid, 30c

**ALFALFA, OR LUCERNE CLOVER (Medicago Sativa).**—As soon as cut it immediately commences to grow, and on the low lands it is not an unusual thing to harvest five or six crops of hay from the same field in one season without irrigation, and the same result is obtained on high, dry lands where irrigation is resorted to. It will not succeed on hard, clayey soils.  
10 lbs. \$2.00; 100 lbs. \$18.50. Per lb., postpaid, 30c

**DRY LAND ALFALFA.**—For high, dry, hot land, where irrigation is impossible.  
10 lbs. \$2.00; 100 lbs. \$19.00. Per lb., postpaid, 35c

**PLEASE NOTE.**—Above prices subject to market changes. See top of page 33. Write for net prices when ready to buy, or order at above prices and we will send you full value, whether MORE or LESS.



# GRASS AND FIELD SEEDS



## ABOUT PRICES READ FOLLOWING PARAGRAPH ABOUT PRICES

Only one grade priced, the best, choice, clean seed. Write for prices in quantity.

Single pound prices on Grass and Clover Seeds are prepaid. Prices per ten, fifty and one hundred pounds are not prepaid and are subject to market changes. Reference tables inside back cover.

### YOU WILL ALWAYS GET YOUR MONEY'S WORTH.

Prices on Grass and Field Seeds change occasionally, therefore we cannot print prices good for any length of time. When ready to buy, write us for special prices, stating quantity, or order what you want at catalog prices, and we guarantee that we will give you full value for the money sent, whether the price at the time you order be higher or lower. In other words, we will always ship seed to cover the full amount of money sent to us.

## GRASS SEEDS

For amount to sow per acre, see table inside back cover.

**KENTUCKY BLUE** (*Poa Pratensis*).—Remarkable for its ability to adapt itself to a great variety of soils, succeeding on an average dry soil as well as on a moist meadow. An abundant yielder and presents a handsome green appearance early in the spring, thus making it of great value for lawn mixtures. Our extra fancy grade for lawns is unequaled.  
**Extra fancy, 10 lbs. \$3.00. Per lb., postpaid, 40c**

**Fancy, 10 lbs. \$2.50. Per lb., postpaid, 35c**  
**ORCHARD** (*Dactylis Glomerata*).—Of the greatest value in permanent pasture mixtures; thrives best in moist, shady places, but will withstand drought exceedingly well. Valued for hay crop, as it is very nutritious if cut early. Its inclination to grow in tufts necessitates other grasses being sown with it.  
**10 lbs. \$2.25; 100 lbs. \$20.00. Per lb., postpaid, 35c**

**ITALIAN RYE** (*Lolium Italicum*).—A quick-growing grass, attaining a height of 2½ to 4 feet; very desirable for meadows or permanent pastures; thrives best on soils that are slightly moist, and will even stand considerable overflow; grows easily and bears an abundance of foliage that makes the best and sweetest hay imaginable.  
**10 lbs. \$1.25; 100 lbs. \$10.00. Per lb., postpaid, 25c**

**BROMUS INERMIS** (Russia Forage Grass).—(Awnless Brome Grass).—This Bromus, on account of its strong perennial character, and its unusual drought-resisting powers, is the best grass we have for the semi-arid regions of the Northwest. It grows luxuriantly, is freely eaten in either the dry or green state by cattle, and yields enormously, making the best of hay for horses or cattle. It is perennial, and yields from 4 to 6 tons to the acre.  
**10 lbs. \$1.75; 100 lbs. \$16.50. Per lb., postpaid, 30c**

**RED TOP** (*Agrostis Vulgaris*).—Perennial, 1 to 2 feet; July. Of great value for mixing with lawn, hay or permanent pasture grasses; will succeed in nearly any soil,

but thrives best in a rich, moist soil; makes a fine bottom growth, rendering it invaluable to be sown with grasses, such as timothy and orchard; should be fed close if for pasture, as it is not relished after it grows up to seed.  
**Choice Seed, not hulled, 10 lbs. \$2.50; 100 lbs. \$25.00. Per lb., postpaid, 35c**  
**Fancy Hulled Seed, 10 lbs. \$4.00. Per lb., postpaid, 50c**

**TIMOTHY, OR HERD'S** (*Phleum Pratense*).—Perennial; 3 to 5 feet; June and July. As a hay crop, timothy is unsurpassed by any other grass. Thrives on ordinary soil, but succeeds best in a moist loam. Best to cut it when in blossom or soon after flowering. Beneficial to sow timothy with red top and red clover, as they produce more of a bottom growth.  
**10 lbs. \$1.25; 100 lbs. \$9.00. Per lb., postpaid, 20c**

**ENGLISH RYE GRASS** (*Lolium Perenne*).—Perennial; 15 to 24 inches; June. A valuable variety; used for lawn, permanent pasture and mowing mixtures; forms a very compact sward, and if cut when in blossom is very nutritious; very vigorous in most situations.  
**10 lbs. \$1.50; 100 lbs. \$12.00. Per lb., postpaid, 25c**

**RHODE ISLAND BENT** (*Agrostis Canina*).—Forms a very fine turf even on light soils; desirable for lawns, as it forms a very close sward.  
**10 lbs. \$4.00. Per lb., postpaid, 50c**

**CREEPING BENT** (*Agrostis Stolonifera*).—Perennial. A grass desirable for either lawns or permanent pasture on account of the fine, firm and enduring turf it produces; specially adapted to moist situations. **10 lbs. \$4.00. Per lb., postpaid, 50c**

**MESQUITE** (*Holcus Lanatus*).—It is usually sown on virgin soil, without cultivation, after the ground has been burned over.  
**Fancy Hulled Seed, 10 lbs. \$1.75; 100 lbs. \$16.50. Per lb., postpaid, 25c**

**NOTE.**—We know you can buy cheaper Grass Seeds from other dealers. We offer only the **BEST RECLEANED HEAVY CLEAN SEEDS**—really cheapest to buy.

## FIELD AND MISCELLANEOUS FARM SEEDS

Single pound prices are prepaid. Ten, fifty and one hundred pound prices are NOT prepaid and subject to market changes. Seed to cover amount remitted always sent unless otherwise ordered. See notes page 33. Write for prices on larger quantities when ready to buy.

### ARTICHOKES

Planted and cultivated as potatoes. Of great value for feeding stock. They are the best hog feed known. They are remarkable for their fattening properties, great productiveness, over 1000 bushels having been raised on 1 acre.



Artichoke Tubers

Easier to grow than potatoes. They need not be dug. If hogs are turned in on them they can easily root the tubers out. One acre will keep from twenty to thirty hogs in fine condition for several months. Said to be a preventive of cholera and other hog diseases. Plant 400 lbs. early in the spring.

**WHITE FRENCH**, most profitable variety. By freight or express, 10 lbs. 40c; 50 lbs. \$1.50; 100 lbs. \$2.50. Per lb., prepaid, 15c; 4 lbs. 50c

### BUCKWHEAT

**SILVER HULL**.—A very good and popular variety; grain is of a light gray color; has a thin husk; matures early, and yields heavily; a good milling variety. 10 lbs. 75c; 100 lbs. \$5.00. Per lb., postpaid, 20c

**JAPANESE**.—Good yielder, ripens early; excellent for bee pasture. 10 lbs. 75c; 100 lbs. \$5.00. Per lb., postpaid, 20c

### BARLEY

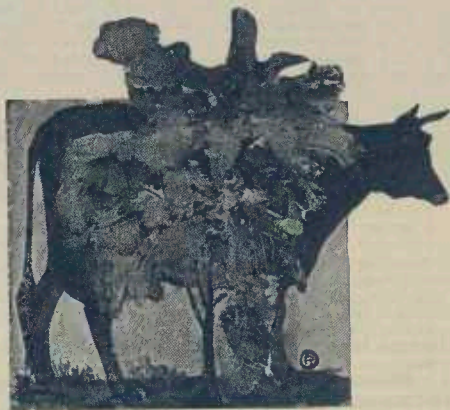
**BEARDLESS**.—The earliest barley known. The straw is about the height of the common barley, but better, and will stand up on any land; with good season, land has produced 80 bushels per acre. Sow as early as you can; frost does not hurt it. This, as its name implies, is beardless, and as easy to grow and handle as oats. It is becoming more popular each season. 10 lbs. 40c; 100 lbs. \$2.75. Per lb., postpaid, 15c

**WHITE HULLLESS (Bald Barley)**.—A grand barley for stock feeding. Grain plump, heavy, and when threshed is hullless like wheat; a heavy cropper. When grown and cut for hay it produces a magnificent crop, which is very rich and almost equal to a grain feed. Much relished by horses and stock of all kinds. An excellent hog feed. Culture same as common barley. 10 lbs. 50c; 100 lbs. \$3.50. Per lb., postpaid, 20c

**COMMON**.—We always aim to have a nice, clean stock of good seed barley on hand at all times. 10 lbs. 35c; 100 lbs. \$2.25. Per lb., postpaid, 15c

**COW KALE (Thousand-Headed Kale)**.—Recommended by agricultural colleges, granges and dairymen who have tested it as one of the most valuable forage plants for this Coast. It grows rapidly and produces a mass of thick, curly green leaves, rich and succulent, which are eagerly eaten by sheep, cattle and horses. Especially recommended for green feed during the dry summer months. Sow in drills two to three feet apart, four pounds to the acre, and thin out as needed. Makes the most rapid growth if sown in the early spring, but can be sown in summer and fall for winter feed. Will stand light freezing. Stalks can be cut off, or the larger lower leaves broken off, leaving the tops to grow.

Pkt. 5c; oz. 10c; ¼-lb. 20c; lb., postpaid, 35c; 10 lbs. \$3.00



Thousand-Headed Kale.

This cut is from photo, and gives you a good idea of the size and plant when well grown.

### CHEAT SEED

Cheat seed yields a good crop of hay, especially on low or moist soil, and will stand considerable overflow without harm. Sow in the fall or early spring, the same as oats and about 100 pounds per acre. 10 lbs. 50c; 100 lbs. \$2.50. Per lb., postpaid, 15c

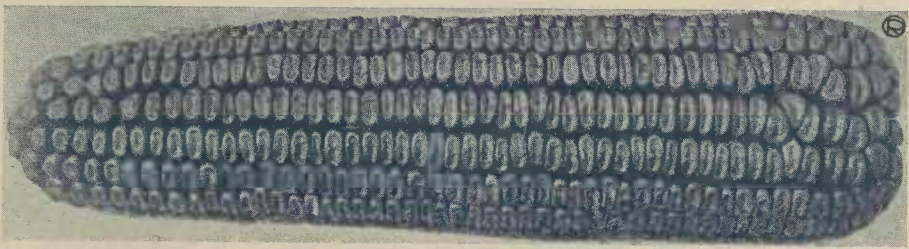
### COW PEAS

These so-called "Cow-Peas" are really a small bean of strong running growth, with a large and abundant, glossy, dark green foliage. Desirable for enriching the soil and furnishing a large crop of nutritious forage, although we believe field peas are better for most locations here. The vines may be cut either for feding green or can be cured like clover for winter use. Sow 100 lbs. per acre.

10 lbs. \$1.00; 100 lbs. \$8.00. Per lb., postpaid, 25c

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Every farmer needs a broadcast seed sower the "Cahoon" is best. See page 106.

Single pound prices on Grass Seed are prepaid. Ten, fifty and one hundred pound prices are NOT prepaid and subject to change. See notes page 33. For amount of seed to sow per acre see table inside back cover.



Routledge Pride of the West.

## FIELD CORN FOR OREGON

If you want to raise some good Field Corn, plant our Western grown Seed Corn. The strains we are offering you are acclimated and especially adapted to our short, cool summers. Eastern and Southern grown field corn seed is all right for green fodder, but of little value on this Coast, if you want to raise matured, dry ears.

### ROUTLEDGE PRIDE OF THE WEST (Sample Ears on Display at Our Store.)

This new Field Corn is a grand success in Oregon. We have been raising this variety for six years, and by selecting the earliest ripening and best select ears, now have a strain that is a revelation to many people who have thought Oregon and Washington could not raise profitable field corn.

Routledge Pride of the West Field Corn is an early maturing variety, producing stalks from 6 to 8 and 10 feet high, and large ears, 8 and 9 inches long. Cobs covered with 14 to 16 rows of deep, yellow kernels. It is a heavy yielder. Our grower reports having harvested over 85 bushels dry seed per acre—going some, eh? Plant some of this corn this season; you will be pleased with results, we are sure. **Stock limited, so order early. Large pkt. 10c; 1b. 20c; 5 lbs. 60c, postpaid. By freight or express, your expense, 10 lbs. 85c; 100 lbs. \$7.50**

**MINNESOTA NO. 13—Yellow Dent.**—A variety of great promise, being the earliest of the early yellow dent corns and reported to be the heaviest yielding. Producing splendid large ears, closely filled from end to end with bright yellow kernels. Grows about 7 feet high and being a rapid, vigorous grower, with heavy foliage, makes a fine fodder corn. Will mature in 90 days under favorable conditions.

**Per lb. 20c; 5 lbs. 60c, postpaid. By freight 10 lbs. 75c; 100 lbs. \$6.50**

**MINNESOTA KING (Dent).**—Recommended by the Agricultural College as best for Western Oregon and Washington. Small cob and large grain. The ears are uniformly well filled out. Makes more shelled corn to a given bulk of ears than any other variety. Golden yellow and a good yielder.

**1 lb. postpaid, 20c; by express or freight, 10 lbs. 75c; 100 lbs. \$6.00**

## MONEY MAKING

## OATS

## OF SPECIAL MERIT

### ROUTLEDGE PRIZE OATS

This wonderful new oat, introduced by us in 1908, has proved in growing contests all we claimed for it. **Routledge Prize** certainly is a prize oat, and a real **prize-winner** at the county fairs wherever it has been shown. This grand oat belongs to the tree or branching class, and is a vigorous, healthy grower of strong stooling qualities and need not be seeded as heavily as most oats (1½ to 2 bushels per acre is ample). This is the heaviest yielding oat introduced to date. From several hundred samples we sent out, spring of 1908, the lightest yield reported was over 100 bushels per acre, and from that up to 200 and 300 bushels—**simply enormous.**

Routledge Prize Oat is a very early, drought-resisting variety. Grain of good size, plump and heavy. White seeded variety.

**Prices: Prepaid, 1 lb. 20c; 3 lbs. 50c; by freight or express, peck, 60c; ½-bushel, \$1.00; 1 bushel, \$1.60; 100 lbs., \$4.00**

### WHITE, GRAY OR BLACK SEED OATS.—

We always aim to have a selected, re-cleaned stock of good White, Black or Gray Seed Oats. Can sell them at about market price for No. 1 seed. When ready to buy, write us for prices, stating quantity wanted, or order at **\$1.25 per bu., 3 bu. \$2.75**, and you will get good value.

### SHADELAND CHALLENGE

The best white **side oat** we know of. Hardy, vigorous, early maturing, and still maintains its supremacy as the best, heaviest yielding, general purpose Oat in existence.

"Shadeland Challenge" is a heavy, plump, thin hulled oat whose immense heads often measure 18 inches in length, bearing from 250 to 300 kernels. Shadeland Challenge ripens in about 100 days from planting if sown, and 100 bu. per acre is not uncommon on ordinary soil. Can be planted in the fall or early as possible in the spring.

**Price: Prepaid, 1 lb. 20c; 3 lbs. 50c; by freight, peck 50c; bushel \$1.50; 100 lbs. \$3.50**

## DON'T

Practice false economy by buying low-priced grains. It don't pay. Our motto—**Quality First, Price as Low as we can make it.**



**FIELD PEAS**

Field Peas are a very profitable crop and are grown here very extensively. They can be grown alone or with oats. When planted with grain and cut green they make a large amount of very rich feed; also very valuable for enriching the soil if plowed under. The dry peas make excellent hog feed and are quite fattening. Sow, if alone, 100 pounds to the acre; if with other grain, 60 pounds.

**WHITE CANADIAN.**—A leading and most popular kind; seed almost white; a heavy cropper.  
10 lbs. 60c; 100 lbs. \$4.50. Per lb., postpaid, 20c

**KAFFIR CORN**

An excellent fodder plant. It does best sown in drills three feet apart.

10 lbs. 60c; Per lb. postpaid, 20c

**MILLETS**

Sow in April, May or June, 20 pounds for seed or 35 pounds for hay per acre. Must be sown early to mature in Willamette Valley.

**Early Fortune**

This variety seems to do extra well here; try it. Heads large and loose, and seed is amber red and three times as large as the German.

10 lbs. 75c; 100 lbs. \$6.50; per lb., postpaid, 20c

**GERMAN.**—An improved variety, yielding a larger crop of seed than the common millet. It is also taller than the common, and yields a heavier crop of hay.

10 lbs. 65c; 100 lbs. \$5.50; per lb., postpaid, 20c

**HUNGARIAN.**—A dwarf millet; superior for hay.

10 lbs. 70c; 100 lbs. \$5.50; per lb., postpaid, 20c

For price on Millet for feed, see Poultry Foods.

**POTATOES FOR SEED**—See pages 22-23.



Millet

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For Farm and Garden Tools, Seeders, etc., see pages 104-108.  
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**RAPE, DWARF ESSEX**

We offer you true, pure seed. One of the best forage plants, on account of the large amount of green feed it will produce at a season of the year when everything else is dried up. It has yielded ten tons of green forage per acre, and has twice the feeding value of green clover. Sheep, swine, cattle and poultry eat it readily. Rape will do well on almost any soil. Prepare the ground as for turnips, and sow any time from May till September; or plant it with grain. Sow, per acre three pounds, in drills; or, if broadcast, five pounds.

10 lbs. \$1.50; Per lb., postpaid, 25c

**SPELTZ—EMMER**

Sow in the spring, the same as wheat, at the rate of two bushels per acre. Cut when the grain is past the middle stage of milk, when it will make splendid grain and lots of rich straw hay. Thresh like wheat, only not so closely. Can be fed whole, rolled like barley, or ground.

10 lbs. 50c; 100 lbs. \$3.00. Per lb., postpaid, 20c

**SUGAR CANE OR SORGHUM**

A valuable crop to grow for fodder or ensilage, as it furnishes an immense tonnage to the acre.

10 lbs. 75c; 100 lbs. \$6.50; per lb., postpaid, 20c

**VETCHES**

**OREGON VETCH (*Vicia Sativa*).**—Oregon's greatest forage plant. Often called Fall Vetch. Grown very extensively in Western Oregon and Washington, especially in the Willamette Valley and on the Oregon coast. It furnishes an abundance of excellent feed, either green or dried. The seed is generally mixed with wheat, oats or rye having a stiff straw to hold it up. Sown alone 85 pounds or 60 pounds with a bushel of grain per acre. Sow in the fall or early spring.

10 lbs. 65c; 100 lbs. \$5.25. Per lb., postpaid, 20c

**HAIRY SAND OR WINTER (*Vicia Villosa*).**—This variety thrives on poor arid, sandy soils. It is sown in the fall or spring, mixed with rye, which serves to support the plants. Sow 20 pounds per acre.

Lb. 20c; 10 lbs. \$1.80. Per lb., postpaid, 30c



Vetches

For Prices on FALL OR SPRING WHEAT OR RYE, write stating quantity wanted.

Single pound prices are prepaid, but ten, fifty and one hundred pound prices are NOT prepaid and subject to change. See notes page 33. For amount of seed to sow per acre see table inside back cover.



# FLOWER SEEDS

Our flower seeds are grown by specialists and are unsurpassed. The following list contains a general assortment of the choicest and most popular and easiest grown flowers for conservatory, greenhouse or garden culture.

**CULTURAL DIRECTIONS.**—Cultural directions are printed on the back of nearly all packets. Flowers usually succeed best in a sandy loam, made rich with well-rotted manure, which should be made fine and thoroughly mixed with the soil. A soil thus prepared will remain moist and loose, so that flower seeds, which are generally small and delicate, will germinate and grow with vigor.

**ANNUALS** grow from seed, flower, mature their seed, and die in one year, or, in other words, the same season.

**HALF-HARDY ANNUALS** are those which should be started early in the house, conservatory or hotbed, and transplanted to the garden in settled warm weather.

**HARDY ANNUALS** are those which can be sown in the open ground.

**NOTE.**—Half **HARDY ANNUALS** and **H. H. PERENNIALS** are hardy in the **WILLAMETTE VALLEY**.

## ACROCLINIUM

Hardy annual, with everlasting flowers; good for cutting; flowers double and dry nicely if cut in bud; 1 foot; July to October.

**Album.**—Double white. Pkt. 5c  
**Mixed.**—All colors. Pkt. 5c

## AGERATUM

Half-hardy annuals, especially well adapted to edge large beds of geraniums, salvia coleus or cannas; flower continuous through the summer.

**Mexicanum.**—Dwarf, blue. Pkt. 5c; ¼ oz. 25c  
**Album.**—Pure white, dwarf. Pkt. 5c  
**Finest Mixed.**—All colors. Pkt. 5c

**Dwarf Little Blue Star.**—New; one of the handsomest blue-flowered dwarf edging plants; grows 5 inches high, and is just covered with small, bright blue flowers. Pkt. 10c

## AGROSTEMMA—Rose of Heaven

**Coeli-Rosa.**—Superb free-flowering, hardy annual, rose-colored flowers; fine for cutting; height 1½ feet; July to September. Pkt. 5c

## ALOYSIA—Lemon Verbena

**Citriodora.**—A greenhouse shrub, valuable for the fragrance of the foliage; 2 feet. Pkt. 10c

## ALYSSUM

One of the most popular hardy annuals, used especially for edging and also valuable for cutting on account of the fragrance of flowers.

**Sweet.**—Pure white; 6 inches; June to November. Pkt. 5c; oz. 35c  
**Little Gem.**—The dwarfiest and best for design bedding; plants very compact and bushy, and grow only 3 inches high. Pkt. 10c; oz. 50c  
**Saxatile Compactum (Gold Dust).**—Hardy perennial; yellow flowers; April to June; height 9 inches. Pkt. 10c; ¼-oz. 20c

**BIENNIALS** grow from seed, sown from June to August, flower, ripen their seed and die the next year, though some varieties bloom the same season if sown early in gentle heat.

**HARDY BIENNIALS** will winter in the open ground without protection.

**HALF-HARDY BIENNIALS** require the protection of a cold-frame or cool-house during winter.

**PERENNIALS** grow from seed, and continue flowering annually for many years after the first season. Some varieties flower the first season if planted early in gentle heat.

**HARDY PERENNIALS** can remain in the open ground during winter without protection.

**HALF-HARDY PERENNIALS** require the protection of a cold-frame or cool-house during winter.

## AMARANTHUS

**Caudatus (Love-Lies-Bleeding).**—Hardy annual; ornamental foliage plant; fine for bedding; green foliage with long, drooping crimson racemes; 2 feet. Pkt. 5c

**Cruentus (Prince's Feather).**—Dark red foliage and feathery flowers; 2 feet. Pkt. 5c

**Tricolor (Joseph's Coat).**—Ornamental; for foliage only; red, yellow and green. Pkt. 25c

## ANTIRRHINUM—Snapdragon.

Half-hardy perennial and annual; blooms in July if sown early in the house; one of our finest cut flowers.

**Queen Victoria.**—New, tall; very large; pure white; superb. Pkt. 10c

**Daphne.**—Soft blush pink. Pkt. 10c

**Golden Queen.**—Rich, pure yellow. Pkt. 10c

**Defiance.**—Rich orange shade. Pkt. 10c

**Tall Giant, Finest Mixed.**—Our seed of this is exceptionally fine. Pkt. 5c; ½-oz. 25c

**Dwarf, Finest Mixed.** Pkt. 5c; ⅛-oz. 25c

## AQUILEGIA—Columbine

Hardy perennials; are most elegant plants and invaluable for cutting or as hardy border flowers; beautiful and graceful; June to September. 2 to 3 feet.

**Benary's Long Spurred.**—Superb mixture of all the most desirable shades. Pkt. 15c; ⅛-oz. 50c

**Single, Finest Mixed.** Pkt. 5c; ¼-oz. 20c

**Double, Finest Mixed** Pkt. 5c; ¼-oz. 20c

## ARABIS—Rock Cress

**Alpina.**—Hardy perennial; pure white flowers in close head; excellent for edging, rockwork or dry situations; 6 inches; April to June. Pkt. 5c; ¼-oz. 25c

**ASPARAGUS**

**Plumosus Nanus.**—A graceful pot plant for either house or conservatory; very finely cut foliage. **Pkt. 25c; 100 seeds \$1.00**

**Sprengeri.**—Drooping foliage; adapted for hanging baskets or cutting. **Pkt. 10c; 100 seeds 50c**

**ASTERS**

One of the easiest and most satisfactory summer and fall flowers to grow. We take the utmost pains to select seeds from the most perfect flowers only, and wish to assure our patrons that our strains are the superiority of perfection.

**QUEEN OF THE MARKET.**

Most valuable for early cutting; the plants branch freely and produce a great many well-formed flowers nearly a month in advance of the later sorts. **White, Pink, Lavender or Finest Mixed. Pkt. 10c; 1/4-oz. 40c**

**ASTER PLANTS** and all popular annual bedding plants supplied in season. See pages 54-56.

**NEW GIANT COMET.**—Considered by many to be the most beautiful of all the Asters (see cut). It is an ideal cutting variety, as each plant bears a number of exquisitely formed large flowers on long, stiff stems.

**Pure White, Pink, Crimson, Violet or Finest Mixed. Pkt. 10c; 1/8-oz. 50c**

**THE BRIDE (Daybreak).**—Same type as above and a new and lovely shade; white, passing to rose. **Pkt. 15c; 1/4-oz. \$1.00**

**WHITE FLEECE.**—Very large and perfect; early; comet type; very full and plummy; a fine companion to Lavender Gem.

**Lavender Gem.**—One of the best; comet type; early and a charming shade of lavender; excellent in every way. **Pkt. 15c; 2 for 25c; 1/8-oz. 75c**

**Pkt. 15c; 2 for 25c; 1/8-oz. 75c**



Aster—New Giant Comet



Improved Giant Crego Aster.

**IMPROVED GIANT CREGO.**—The most beautiful and desirable aster we have ever seen; very hardy, free-flowering and one of the best for general planting; the plant is a strong, healthy grower, and will produce 12 to 15 long-stemmed flowers of the most graceful and pleasing style (see cut). With ordinary care you can grow flowers measuring 5 to 6 inches across. Most of the handsome large aster blooms you see in the Portland flower stores are of this kind.

**Pure White, Shell Pink, Rose Pink, Lavender or Mixed. Pkt. 10c; 1/8-oz. 75c**

**SPECIAL.**—One packet each of the four colors only 30c.

**LADY ROOSEVELT.**—A new giant late-flowering, long-stemmed chrysanthemum aster. It has heavy incurving petals; flowers very large and gorgeous lavender pink. Excellent seller as a cut flower; good until frosts.

**Pkt. 10c; 1/8-oz. 60c**

**SUPERB LATE BRANCHING.**—The most popular late-flowering aster. Flowers are very large in size and borne on long stiff stems 2 to 2 1/2 feet high; the petals are long, giving a chrysanthemum-like appearance to the flower, which greatly enhances its beauty.

**Crimson, Dark Blue, Light Blue, Rose, Pink, White or Finest Mixed. Pkt. 10c; 1/4 oz. 60c**

**BABY'S BREATH.**—See Gypsophila, page 43.

**BALLOON VINE**  
Annual climber; flowers white; seed vessels like small balloons; pretty foliage; grows rapidly; height 8 feet.

**Pkt. 5c; 1/2-oz. 15c**

**USE "WONDER."**—The best Fertilizer and plant food known. A teaspoonful to a plant does wonders. See page 30.

**BALSAM—Lady Slipper**

Hardy annual, succeeding best in sunny situations, rich loam and moisture; very showy and of easy culture; 1½ feet; July to September.

**Prize Mixture.**—This strain will produce the most perfectly formed double flowers in the greatest variety of colors.

**Pkt. 10c; ¼-oz. 35c**

**Improved Camelia-Flowered Finest Mixed.**—Large, extra double flowers.

**Pkt. 5c; ¼ oz. 25c**

**BEAN**

**Scarlet Runner.**—The well-known, rapid-growing annual climber, with bright red flowers, from July to September; height 8 feet.

**Pkt. 10c; ¼-lb. 25c**

**BELLIS—Double English Daisy**

Popular spring-flowering perennial; height 4 inches; April to September.

**Double Mixed. Pkt. 10c**

**Longfellow.**—Double pink flowers. **Pkt. 10c**

**Snowball.**—Free flowering; pure white. **Pkt. 10c**

**Giant Red.**—Mammoth in size; very rare. **Pkt. 20c**

**BROWALLIA—Amethyst**

A very profuse blooming, half-hardy annual bedding plant, bearing during summer and autumn handsome winged flowers of different shades of blue; 1½ feet.

**Finest Mixed. Pkt. 5c; ¼-oz. 25c**

**CALCEOLARIA**

An ornamental plant, and a universal favorite; produces a mass of beautiful puffed, pocket-like flowers of brilliant, self-colors and spotted. Our strains of Calceolaria are very fine.

**Hybrida Grandiflora.**—Flowers of immense size; seeds saved from finest specimens. **Pkt. 35c**

**CALENDULA—Pot Marigold**

Hardy annual; one of the most universal garden flowers. The flowers appear in solitary heads on stout stalks; large, with flat, spreading rays; very showy; flowers the entire season; 1 foot.

**Double Finest Mixed. Pkt. 5c; ¼-oz. 20c**

**CALLIOPSIS**

Showy and beautiful free-flowering annuals, of the easiest culture, doing well in any sunny position, blooming all summer and excellent for cutting and massing.

**Finest Tall Mixed.**—Annual; all shades of yellow, red and brown. **Pkt. 5c; ¼-oz. 20c**

**Hybrida Superba.**—Showy new shades. **Pkt. 10c; ½-oz. 20c**

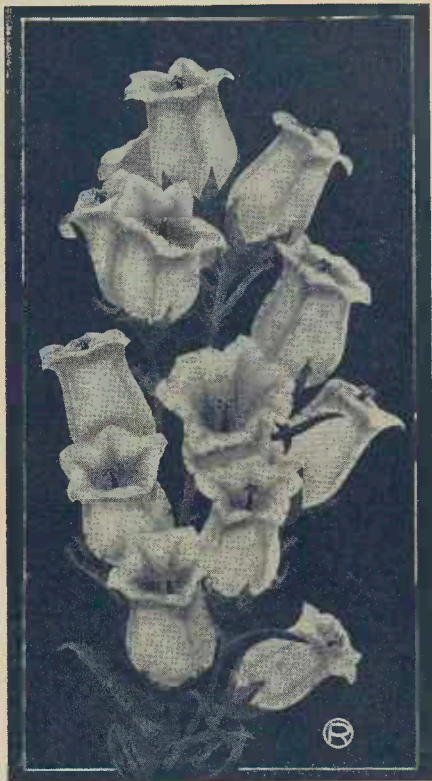
**Golden Ray (Radiala).**

This new Calliopsis is one of the most beautiful and free flowering; from out of the dark-brown center the petals shade into bright, golden yellow rays, thus giving each flower an elegant and striking appearance; bushes compact and about 10 inches high. **Pkt. 15c**

**2 for 25c**



**Calliopsis—Golden Ray**



**Campanula Medium (Canterbury Bells, p. 50)**

**CALLIRHOE—Poppy Mallow**

Hardy perennial; beautiful trailing plant, with palmate foliage; flowers large, crimson, with white center; fine for rock-work; 1 foot; June to October.

**Involuerata. Pkt. 5c; ¼-oz. 25c**

**CAMPANULA—Bellflower**

Well-known, beautiful, hardy herbaceous perennials, bearing a great profusion of attractive bellflowers; thrives best in light, rich soil; some of the varieties flower the first season if sown early.

**PERSICIFOLIA GRANDIFLORA (Peach Bells).**

—Undoubtedly one of the finest of the hardy Bellflowers; grows 2 to 3 feet high, with large single flowers.

**Blue, White or Mixed. Pkt. 10c; ½-oz. 50c**

**PERSICIFOLIA GIGANTEA MOERHEIMI.**

—A beautiful, new variety; 2 feet high. In June and July bears sprays of large, double pure-white, carnation-like flowers; fine for decorating. **Pkt. 15c; 1-16 oz. \$1**

**PYRAMIDALIS (Chimney Bellflower).**

—Stately, hardy perennial, either for garden or pot culture; 3 feet.

**Blue or White. Pkt. 5c; ½-oz. 20c**

**CARPATICA (Carpathian Hare-Bell).**

—Free-flowering, hardy perennial, continuing in bloom the whole season; color clear blue or white; grows 6 inches high; especially good for edging.

**Blue or White. Pkt. 5c; ¼-oz. 25c**

**CANTERBURY BELLS.**—(See next page.)

Perennial Flowers are rapidly gaining in favor. MORE should be planted; they are beautiful in borders, beds or among shrubbery, and flower each year. Pgs. 57 to 60.

**CANTERBURY BELLS** (*Campanula Medium*)

Very ornamental garden plants of easiest culture; excellent for cutting; hardy biennial; 2½ feet high, producing large, bell-shaped flowers of exquisite colors. See *Campanula* (Bellflower), page 39 for perennial class.

Single, Finest Mixed, all colors. Pkt. 5c; ¼-oz. 15c

Single White, Blue or Rose. Pkt. 10c; ¼-oz. 20c

Double Mixed, all colors. Pkt. 10c; ½-oz. 25c

**R. E.'s PRIZE MIXTURE.**—Biennial; a perfect strain, which contains every color of both single and double flowers (including *Calycanthemata*).

Pkt. 10c; ½-oz. 25c

**CALYCANTHEMA** (Cup and Saucer Canterbury Bells).—This is unquestionably one of the finest types; they have an extra large calyx, which is of the same color as the flower, giving the appearance of a cup and saucer.

Pink, Lilac, Rose, White or Mixed. Pkt. 15c; 2 for 25c; ½-oz. 50c

**CANARY BIRD VINE**

A rapid-growing summer-climbing annual, 10 to 15 feet high; it will cover trellis work in the most graceful manner, producing hundreds of pretty winged, bright yellow flowers.

Pkt. 5c; ¼-oz. 20c

**CANNA**

Stately plants. (For *Canna* Roots, see page 62.)

Crozy's Hybrids Mixed. Pkt. 5c; oz. 35c

**CANDYTUFT**—*Iberis*

Crimson.—Deep rich shade.

Pkt. 5c; ¼-oz. 15c

**Empress.**—A large flowered variety of purest white; grown extensively for cut flowers; very desirable.

Pkt. 5c; ¼-oz. 20c

**Pink Beauty (Novelty).**—Fine, true pink; an exquisite flower.

Pkt. 15c

**Dwarf White Little Prince.**—Grows but six inches high and throws up strong trusses of pure white flowers; excellent for edging or bordering.

Pkt. 10c; ¼-oz. 50c

**Finest Mixed, all colors.** Pkt. 5c; ¼-oz. 20c  
**Sempervirens.**—Perennial; pure white flowers, evergreen foliage; blooms in June; fine for edging, borders and rockeries. 1 foot.

Pkt. 10c; 1-16 oz. 35c

**CARNATION**

Everyone loves Carnations. For started plants of the finest varieties, see pages 54-55.

**MARGARET CARNATIONS.**—The earliest to bloom, and producing large, double, sweet-scented flowers; being half-hardy perennials, if they are slightly protected during the winter they will flower profusely the next summer.

**Red, White or Yellow.**—Large flowers.

Pkt. 10c; ½-oz. 50c

**Choice Mixed.** Pkt. 5c; ¼-oz. 35c  
**Benary's Giant.**—Extra large flowering and of the most beautiful colors.

Pkt. 15c; ½-oz. 65c

**CELOSIA CRISTATA**—Cockscomb

Showy annuals of easy cultivation; 1 foot; producing large, brilliant, comb-like flower heads.

**Glasgow Prize.**—Showy, dark crimson combs. Pkt. 10c; ½-oz. 40c

**Finest Mixed.**—Rich mixture. Pkt. 5c; ¼-oz. 30c

**CELOSIA PLUMOSA**—Feathered

Cockscomb

The plant grows 2 to 3 feet, is of hand-

**FLOWERING PLANTS.**—We have thousands of hardy Flowering Annual and Perennial Plants and Bulbs during April and May. See pgs. 50 to 56.

some pyramidal form, and the numerous massive plumes, which resemble an ostrich feather waving gracefully above the foliage, make it one of the most effective; of easy culture.

**Thompsoni Magnifica.**—The most perfect

In constant bloom from July to November;

**Finest Mixture.** Pkt. 10c; ¼-oz. 35c

**Thompsoni Golden Yellow.** Pkt. 15c

**Thompsoni Crimson.**—True color. Pkt. 15c

**CENTAUREA**—Dusty Miller

These are grown for foliage only; hardy annuals; leaves are silver-coated.

**Candidissima.**—Thick, white, upright cut leaves; 1 foot. Pkt. 10c

**Gymnocarpa.**—Fine, fern-like leaves, very graceful and showy; 1½ foot.

Pkt. 10c; ½-oz. 25c

**CENTAUREA CYANUS**

**Bachelor's Button, Cornflower.**—Very popular annuals; will grow in the poorest of soil, either on seashore or mountains; seed can be sown either in fall or spring; sandy soil preferable; height, 2½ feet.

**Finest Mixed.** Pkt. 5c; oz. 35c

**CENTAUREA CYANUS fl. pl.** (Double Bachelor's Button). Pkt. 10c; ¼-oz. 25c

**CENTAUREA IMPERIALIS** (Giant Cornflower).—The flowers are of enormous size, fragrant and of charming colors; excellent for cutting.

**Finest Mixed.** Pkt. 10c; ¼-oz. 35c

**ODORATA MARGUERITE.**—Flowers 4 inches across; purest white; very fragrant; July to September; excellent for cutting; flowers full and double.

Pkt. 10c; ¼-oz. 40c

**ODORATA FINEST MIXED.**—All colors.

Pkt. 5c; ¼-oz. 25c

**CENTAUREA MOSCHATUS** (Sweet Sultan).—Hardy annual, with very fragrant and showy flowers; 1½ feet; June to September.

**Finest Mixed.** Pkt. 5c; ¼-oz. 25c

**SUAREOLENS** (Yellow Sweet Sultan).—

Very showy. Pkt. 5c; ¼-oz. 25c

**PERENNIAL VARIETIES**

**CENTAUREA BABYLONICA.**—Pure yellow, grand flower; 3 feet; June to September.

Pkt. 10c

**CENTAUREA MONTANA** (Cornflower of Armenia).—Large, feathery flowers; height 2 feet; July and August.

**Blue or White.** Pkt. 10c

**CHRYSANTHEMUM**

These are very showy flowers of easiest cultivation, flowering from July to frost; excellent for cutting; height 2 feet. (For plants, see pages 54-55.)

**Single Annual, Finest Mixed.** Pkt. 5c; ¼-oz. 25c

**Double Annual, Finest Mixed.** Pkt. 5c; ½-oz. 20c

**Japanese Early Flowering** (Double Flowering).—These flower in the open ground from August to November; splendid plants for show effect; height 3 feet.

Pkt. 15c

**Leucanthemum.**—(See *Shasta Daisy*, under *Daisies*, page 41.)

**CINERARIA**

**Hybrid Grandiflora.**—We pride ourselves in offering the choicest strain of this gorgeous flower; grand, large blooms in umbel spikes are borne way above the foliage; colors and markings are superb; 1½ feet.

Pkt. 35c

**CLARKIA**

A mighty handsome annual; of easy cultivation; flowers resemble carnations; 2 feet; July to October.

**Elegans.**—Double mixed. Pkt. 5c; ¼-oz. 25c



Cosmos, Early Flowering. “The most desirable fall flowers we have.”

**COSMOS**

Showy in the garden and beautiful when cut. Formerly we had to be content with the late-flowering type, which was often killed by early frost. Now that we have a most perfect type of the early flowering class, every garden should contain this exquisite flower. (See cut.)

**BENARY'S EARLY FLOWERING.**—If sown early, flowers can be picked in July. Grows 4 feet high; flowers large and beautiful.  
White, Pink or Mixed. Pkt. 10c; ¼-oz. 25c

**KLONDYKE.**—Golden yellow, flowers large and borne on long stems; medium early. Pkt. 10c

**MAMMOTH MIXED.**—Flowers often 4 inches across; plants 7 feet high; blooms do not appear until October. Pkt. 5c; ¼-oz. 20c

**COREOPSIS**

**Lanceolata Grandiflora.**—Hardy perennial; with large, showy, bright yellow flowers, produced in the greatest abundance from June till frost. As a cut flower they stand near the head among hardy plants, having long stems and lasting in good condition a week or more. Easily grown from seed, flowering the first year, if sown early. Pkt. 10c; ¼-oz. 25c

**COBAEA SCANDENS**

Our most popular and rapid climbing annual, flowering the first season. Pretty, purple, bell-shaped flowers appear in great profusion during the fall months; foliage very graceful; 20 feet. (For plants, see page 57.) Pkt. 10c; ¼-oz. 25c

**COLEUS**

Splendid bedding plants, with beautifully colored foliage; easily grown from seed if kept in warm temperature; tender perennial that must be started under glass. Benary's Exhibition.—Superb. Pkt. 25c

**CYCLAMEN**

Beautiful plants for the window or greenhouse, with mottled leaves and rich-colored flowers. The strain we offer below has gained a reputation for its large size, perfect form and brilliant colors. Giganteum.—Finest mixed. Pkt. 35c

**CYPRESS VINE**

A fast-growing annual vine, with feathery, dark-green foliage and star-like flowers; July to October; 20 feet. Finest Mixed. Pkt. 5c; ½-oz. 15c

**DAHLIA**

This very popular flower can easily be raised from seed; started inside in March will produce flowers in August. March will produce flowers in August. Cactus-Flowered, Double Mixed. Pkt. 20c  
Double Show, Finest Mixed. Pkt. 10c  
Single Giant Perfection.—Pkt. 10c.  
DAHLIA BULBS.—Latest and best. (See pages 66-71.)

**DAISIES**

**SHASTA.**—Very popular and desirable perennial; the large single white flowers are freely produced on long stems. We offer you the best strain in plants or seed. (See cut in Plant Department, page 60.) Pkt. 15c

**WESTRALIA.**—A strain of Shasta Daisy of superior merit; magnificent, pure-white flowers on long stems. Pkt. 25c  
**DOUBLE DAISIES.**—(See Bellis, page 39.) ica, below.)

**DIANTHUS—Garden Pink**

All the varieties listed below are very desirable, and will flower the first season, even sown out of doors in May; they flower early and continue throughout the entire summer; they are excellent for cutting, and bedding; 1 foot.

**CINENSIS fl. pl.** (Chinese Pink).—Large, double flowers in unlimited variety of bright colors. Pkt. 5c; ½-oz. 20c

Finest Mixed. Pkt. 5c; ½-oz. 20c

**HEDDEWIGII fl. pl.** (Double Japan Pink.) Beautiful rich colors. Pkt. 5c; ½-oz. 25c

Finest Mixed. Pkt. 5c; ½-oz. 25c

**FIREBALL.**—New, extra double, brilliant, dark scarlet; very beautiful. Pkt. 10c; ½-oz. 30c

**SNOWDRIFT. (Lanceatus).**—Extra large, pure white, double, fringed. Pkt. 10c; ½-oz. 50c

**BENARY'S PRIZE MIXTURE.**—Very rich. Pkt. 5c; ½-oz. 25c

**SEMPERFLORENS (Perennial Hardy Ever-blooming Garden Pinks).**—Very beautiful, sweet-scented, double, semi-double and single flowers in great diversity of colors. Pkt. 10c; ½-oz. 50c

A HEDGE of Free Flowering Dahlias is AS BEAUTIFUL and more showy than a hedge of ROSES. They are in full bloom when other flowers ARE SCARCE. See pgs. 66 to 71.

**DELPHINUM—Perennial Larkspur**

(See cut, page 58.) Handsome, hardy perennial plants for the herbaceous border and shrubbery, producing a profusion of splendid spikes of flowers throughout the summer; will usually bloom the first season. (For large plants, see page 58.)

**Cashmerianum.**—18 inches high; large, dark blue flowers; spreading habit.

**Pkt. 15c; 1/8-oz. \$1.00**

**Chinese Azureum.**—Branches very freely and produces its flowers in greatest abundance; clear, deep blue; height 3 feet.

**Pkt. 5c; 1/8-oz. 15c**

**Belladonna.**—Very free and continuous bloomer; delicate and beautiful; clear turquoise blue.

**Pkt. 25c; 5 pkts. \$1.00**

**Cardinale.**—Scarlet; 3 feet. **Pkt. 15c**

**Formosum.**—Long-spurred, brilliant blue flowers, with white center; 3 feet; July to October.

**Pkt. 5c; 1/8-oz. 15c**

**Elatum Hybridum.**—Superb collection of finest double blue varieties; 3 to 5 feet.

**Pkt. 15c; 1/8-oz. 50c**

**DIGITALIS—Foxglove**

Hardy perennials; very desirable for effective massing or grouping; invaluable either in the hardy border, between shrubs or in solid beds. (See cut.) For strong flowering plants, see page 58.

**Beauty Mixture.**—Comprising all the choicest colors.

**Pkt. 5c; 1/4-oz. 50c**

**Gloxinaeflora, Finest Mixed.**—Flowers spotted similar to Gloxinias.

**Pkt. 5c; 1/4-oz. 25c**

**Gloxinaeflora Rosea.**—Very desirable.

**Pkt. 10c; 1/4-oz. 30c**

**Montrosa (Mammoth Foxglove).**—The tall spikes are surmounted by one monstrous flower; all colors mixed.

**Pkt. 10c; 1/4-oz. 50c**

**DIMORPHOTHECA AURANTIACA**

This new single African "Golden Orange" Daisy is rare and showy; easily grown from seed and very free-flowering all summer; 12 to 15 inches high.

**Pkt. 10c; 1/8-oz. 25c**

**DOLICHOS—Hyacinth Bean**

Annual climbers; beautiful foliage and clusters of hyacinth-like purple and white flowers, borne in clusters; 10 feet; July to September.

**Daylight.**—Snow-white flowers. **Pkt. 10c**

**Mixed.**—White and purple. **Pkt. 5c; oz. 25c**

**ESCHSCHOLTZIA—California Poppy**

One of the most popular garden annuals; 1 foot. Seeds should be sown very early. It stands considerable cold and blooms after the first frost. If protected plants will live through the winter.

**Finest Mixed.**—All shades. **Pkt. 5c; oz. 30c**

**Californica.**—Bright yellow. **Pkt. 5c; oz. 30c**

**Alba.**—Pure white. **Pkt. 5c; oz. 35c**

**Carmine.**—A beautiful rose carmine.

**Pkt. 10c; oz. 50c**

**Golden West.**—Very large, bright yellow flowers with orange centers.

**Pkt. 10c; oz. 50c**

**GAILLARDIA—Blanket Flower**

Splendid, showy plants for beds or borders; excellent for cutting; the hardy perennial varieties; if sown early will bloom the first season; July to frost; 1 1/2 feet. (Field-grown plants, page 58.)

**Grandiflora Superba.**—Hardy perennial; splendid mixed varieties; in crimson and gold; 2 feet. **Pkt. 10c; 1/4-oz. 25c**

**Grandiflora Semi-plena.**—A superb mixture of hardy, perennial, semi-double kinds.

**Pkt. 15c**

**Picta Lorenziana.**—Hardy annual; double mixed colors; 2 feet. **Pkt. 5c; 1/4-oz. 25c**

**ECHINOCYSTIS LOBATA—Wild Cucumber**

The fastest-growing annual vine in existence; will grow 20 feet in six weeks; pretty foliage and inconspicuous white flowers; soak seed in water 24 hours before planting.

**Pkt. 5c; 1/2-oz. 25c**

**GERANIUM**

**Finest Mixed Hybrids.**—Pkt. 25c. (Strong plants, pages 54-56.)

**GLOXINIA**

Showy free-flowering greenhouse plants.

**Hybrida Grandiflora.**—The best strain in existence, embracing all the choicest self-colored, tigered and spotted flowers.

**Pkt. 25c**

**GOMPHRENA—Globe Amaranth**

A dwarf hardy annual, with pretty clover-like beads of purple, white and red flowers; 2 feet; flowers everlasting.

**Finest Mixed. Pkt. 5c; 1/4-oz. 20c**

**GODETIA—Satin Flower**

This showy, hardy annual deserves greater popularity. Mallow-like flowers, varying from white to all shades of pink and crimson. They grow rapidly, and flower profusely; of easy cultivation, both at seashore or mountain resorts; 1 1/2 feet; July to October.

**Pkt. 5c; 1/4-oz. 20c**

**GOURDS**

**ORNAMENTAL.**—Fast-growing annual vines; cucumber-like foliage; creamy white flowers and bearing gourds of the most interesting forms and colors.

**Calabash.**—The famous pipe gourd, dipper shaped.

**Pkt. 10c; oz. 50c**

**Egg, Orange, Turk's Turban, Pear, Spoon, or Mixed all kinds. Pkt. 5c; 1/4-oz. 15c**



**Digitalis—Foxglove Plant and Flower Spike**

**OUR FLOWER SEEDS** come from the **WORLD'S BEST GROWERS**—"Highest Quality" ONLY.

**GYNERIUM—Pampas Grass**

**Argenteum.**—Hardy perennial; the famous pampas grass, with beautiful silvery plumes; 10 feet. (For strong plants, see page 59.) **Pkt. 10c**

**GYPSOPHILA—Baby’s Breath**

Pretty free flowering, elegant plants, succeeding in any garden soil. Their misty white panicles of bloom are largely used for mixing with other cut flowers. The annuals should be sown early in the spring and mid-summer for a continuous supply.

**Elegans Alba.**—Hardy annual, easily grown from seed; flowers pure white; 2 feet; June. **Pkt. 10c; ½-oz. 25c**

**Elegans Rosea.**—Hardy annual; flowers bright rose; very dainty; 2 feet. **Pkt. 5c; ½-oz. 25c**

**Paniculata.**—Hardy perennial; one of the finest for cutting; pure white flowers, very small, and borne in large, delicate sprays; June to September; 3 feet. **Pkt. 10c; ¼-oz. 25c**

(For strong roots of *G. Paniculata* for immediate effect, see page 58.)

**Paniculata Fl. Pl.**—New perennial; double-flowering; most desirable and valuable; pure white. **Pkt. 25c; 2 for 35c**

**Repens.**—Perennial; plants dwarf, about 6 inches; flowers white; fine for borders or rock work. **Pkt. 10c; ½-oz. 25c**

**HELIOTROPE**

Delightfully fragrant, tender perennial; popular pot and garden bedding plant; also for cutting. Some of the best plants may be raised from seed very readily; 1½ feet; start inside or under glass.

**MIDNIGHT.**—New; handsome, large flowers, lively shade of purple; foliage beautiful dark green; stem black. **Pkt. 15c**

**Finest Mixed.**—All colors. **Pkt. 5c; ½-oz. 35c**

**HELIANTHUS—Sunflower**

Among the showiest of our garden plants. **Californicus fl. pl.**—Very large, perfectly double yellow flowers; 5 feet; annual. **Pkt. 5c; oz. 35c**

**Globosus Fistulosus.**—Flowers immense, from 12 to 15 inches in diameter; globular and extremely double; the most effective of all annual sunflowers. **Pkt. 5c; oz. 35c**

**Perennial Mixed.**—A choice mixture of the best perennial varieties. **Pkt. 10c; ½-oz. 50c**

**HOLLYHOCKS**

Very popular perennials. (See cut.)

**ALLEGHENY.**—Semi-double; mammoth flowers, having the edges of the petals finely fringed and lacinated; will bloom the first year if sown early.

**Choicest Mixed Colors.** **Pkt. 10c; ¼-oz. 50c**

**DOUBLE GERMAN EVER-BLOOMING.**—Will bloom the first year from seed, if sown early. **Pkt. 5c; ¼-oz. 40c**

**NEW ANNUAL EVER-BLOOMING.**—This is one of the best introductions of late years. Seeds sown in the house in March will produce flowers in July on plants 4 feet high; the plants do not attain their perfection until their second year, when they grow 7 to 10 feet high, and flower continuously from June till frost.

**Single Mixed.** **Pkt. 5c**  
**Double Mixed.** **Pkt. 10**

**CHATER’S IMPROVED.**—Our strain of this is the best that can be produced; seeds saved from the most double flowers.

**White, Pink, Crimson, Yellow or Mixed.** **Pkt. 10c; ¼-oz. 50c**



**Hollyhock—Double Flowers**

**HUMULUS—Japanese Hop**

Hardy annual climber; of rapid growth; attains a height of 12 feet.

**Japonica Variegata.**—Foliage green and white; very pretty and effective; not affected with insects. **Pkt. 10c; ¼-oz. 25c**

**COMMON HOP ROOTS.**—(See page 87.)

**HUNNEMANNIA**

**Fumariaefolia** (Giant Yellow Tulip Poppy.)

—Hardy annual; foliage fern-like; flowers tulip-shaped, golden yellow; very showy; July to frost. **Pkt. 5c; ¼ oz. 25c**

**IPOMOEA—Moonflower**

**Grandiflora Alba.**—Large, heart-shaped leaves, and large, pure white flowers, which open only late in the evening; 10 feet. **Pkt. 10c**

**IPOMOEA PURPUREA.**—(See Morning Glory, next page.)

**LARKSPUR**

These are splendid, hardy annuals, which, when grown in beds or borders, make a pleasing effect, and the slender flower stalks, when cut, are most desirable for vases; July to October.

**Dwarf German Rocket.**—1 foot; compact growing bush; splendid spikes of double flowers in all colors. **Pkt. 5c; ¼-oz. 20c**

**Giant Hyacinth Flowered.**—3 feet; fine, compact spikes of beautiful flowers. **Pkt. 5c; ¼-oz. 20c**

**Emperor.**—Tall, slender spikes of exquisite double flowers in unlimited quantity; 3 feet. **Pkt. 5c; ¼-oz. 20c**

**PERENNIAL LARKSPUR.**—(See Delphinium, page 42.)

**MORE HARDY FLOWERING SHRUBS** should be planted in the West—they give no trouble, increase in size and grow more beautiful year by year. See pgs. 88 to 97.



**LATHYRUS LATIFOLIUS**

**Perennial Sweet Pea.**—Free flowering, hardy perennial climbers, bearing beautiful flowers all season.  
**White or Pink.** Pkt. 10c; ½-oz. 25c  
**Mixed.** Pkt. 5c; oz. 35c

**LOBELIA**

**Erinus Gracilis.**—Trailing bright blue flowers; excellent for vases, hanging baskets and window boxes. Pkt. 5c; ½-oz. 25c

**Hybrida Sapphire (New.)**—This is by far the most beautiful trailing Lobelia to date; very large, deep sapphire blue flowers, with a large and clear white eye; very free and early flowering; extra long trailer. Pkt. 20c

**Barnard's Perpetual.**—Deep blue, with white eye; very fine; trailing. Pkt. 15c

**Crystal Palace Compacta.**—Little dwarf bedding plant; dark blue flowers cover the whole plant during the entire season; very compact and used extensively in carpet bedding or edging; height 4 inches. Pkt. 10c; ½-oz. 50c

**White Gem.**—Compact little plants, covered with snow-white flowers. Pkt. 10c

**Cardinalis (Cardinal Flower.)**—Hardy perennial, with spikes of deep cardinal red flowers; August and September; 3 feet. Pkt. 15c

**KOCHIA—Tricophylla**

**Summer Cypress or Burning Bush.**—Annual; forms dense bushes of upright plumage-like foliage; during the summer they remain light green and in early fall they change to carmine and blood red; 2 feet; makes a dainty and showy hedge or nice single specimens. Pkt. 5c; ¼-oz. 25c

**KUDZU VINE**

**Pueraria Thumbergiana.**—Tender perennial climber from Japan, growing 30 to 50 feet in a single season. Pkt. 10c

**LUPINUS**

Ornamental, free-flowering, easily grown, with long, graceful, upright spikes of rich and variously colored pea-shaped flowers; valuable for mixed borders and beds.

**Annual Dwarf Mixed.**—1 foot. Pkt. 5c; ¼-oz. 10c

**Polyphyllus Mixed.**—Showy perennials, growing stout and erect; good for cutting; flowers in great variety of colors; 3 to 4 feet; May and June. Pkt. 5c; ¼-oz. 15c

**MARVEL OF PERU—Four o'Clock**

Hardy annual, flowering from July to October; brilliant colors; 3 feet.

**Finest Mixed.** Pkt. 5c; oz. 25c

**MARIGOLD—Tagetes**

Widely grown, hardy annuals; invaluable for bedding and producing an elegant display of yellow, orange and brown flowers from early summer till frost.

**Mammoth African, Finest Mixed.**—Very large and double, in finest variety; 2 to 3 feet. Pkt. 5c; ¼-oz. 25c

**Tall Double French, Finest Mixed.** Pkt. 5c; ¼-oz. 20c

**Dwarf Double French, Finest Mixed.** Pkt. 5c; ½-oz. 15c

**MESEMBRYANTHEMUM**

Dwarf trailing plants of great beauty, blooming the whole summer, thriving best in a dry, loamy or sandy soil; hardy annuals; 8 inches.

**Tri-color.**—Very dainty, pointed petaled, salmon-pink flowers. Pkt. 10c

**CrySTALLINUM (Ice Plant).**—Flowers white, prized for its singular icy foliage. Pkt. 5c

**MIMULUS—Muskplant**

**Moschatus.**—A tender trailing plant with small yellow flowers, giving forth a musk-like fragrance; 6 inches. Pkt. 10c

**MIGNONETTE—Reseda**

A universal favorite; very fragrant; no home garden is complete without Mignonette. It needs a cool soil only moderately rich; grows 6 to 12 inches high and is treated as a half-hardy annual; sown from April to early in July.

**Grandiflora.**—Large-flowering; sweet. Pkt. 5c; oz. 15c

**Defiance.**—Giant spikes; flowers abundant and very fragrant. Pkt. 10c; ¼-oz. 25c

**Machet.**—Excellent for pots; very select strain; highly-colored flowers. Pkt. 10c; ¼-oz. 25c

**White Pearl.**—New; the best white flower; very attractive. Pkt. 10c; ¼-oz. 35c

**MORNING GLORY—Ipomoea Purpurea**

The tall varieties are popular, well known, rapid-growing climbers of the easiest cultivation; very fine for covering arbors, trellises, porches, etc.; the Minor or Dwarf varieties flower very freely and do not require support.

**Convolvulus Major.**—Tall, choice, single mixed; all colors. Pkt. 5c; oz. 15c

**Convolvulus Minor.**—Dwarf mixed. Pkt. 5c; oz. 15c

**Imperial Japanese Fringed.**—These have very large fringed flowers in a great variety of the most exquisite colorings; handsome foliage. Pkt. 10c; oz. 25c

**Japanese Double Mixed.**—This double Japanese sort is very fine in leaf, flower and growth. Pkt. 15c

**Choice Prize Mixture.**—This is a mixture of both American and Japanese varieties; very choice. Large Pkt. 10c; oz. 20c  
 (Note.—Soak the Japanese Morning Glory seed in warm water for 24 hours before planting.)



Nasturtium—Trailing.

For permanent and hardy climbing flowering vines and trailers, see pages 97-98.

**MYOSOTIS—Forget-Me-Not**

Half-hardy perennials, producing little blue, star-like flowers profusely. *Alpestris* and *Dissitiflora* bloom in April and May; *Palustris*, May till fall; flowers first season if started early.

**Finest Mixed.** Pkt. 5c; 1/8 oz. 25c

**Dissitiflora.**—Rich blue; early flowers in fine sprays; 6 inches. Pkt. 10c; 1/8 oz. 50c

**Alpestris Victoria.**—Of bushy habit; bearing large, double, bright blue flowers; yellow eye; very fine; 6 inches.

**Alpestris Royal Blue.**—Rich indigo blue; 9 inches. Pkt. 15c; 1/8 oz. 40c

**Palustris Semperflorens.**—Perennial; flowers bright blue; blooms from early spring until autumn. Pkt. 10c; 1/8 oz. 50c

**NASTURTIIUM**

We offer only the finest strains, producing the largest and richest flowers.

**LOBBIANUM, TALL OR CLIMBING VARIETIES**

- Asa Gray.**—Yellowish white; very fine.
- Black Prince.**—New; very dark.
- Crown Prince.**—Rich blood red.
- Golden Queen.**—Very fine yellow.
- Margaret.**—Yellow, spotted red and yellow.
- Primrose.**—Cream, brown spots.
- Regina.**—New salmon shade.
- Spitfire.**—Bright fiery scarlet.

Prices: Your choice of above varieties, Pkt. 5c; full collection, 8 kinds, 30c; per oz., any kind, 20c.

**Tall Prize Mixture.**—This is undoubtedly the finest mixture of tall Nasturtiums offered anywhere; every shade is grown separately and then mixed. Large Pkt. 10c; oz. 20c; 1/4-lb. 50; lb. \$1.50

**Tall Choice Mixed.**—A very fine selection of beautiful varieties. Large Pkt. 5c; oz. 10c; 1/4-lb. 30c; lb. 75c

**Ivy-Leaved, Finest Mixed.**—The ivy leaves, borne on very slender stems, are of a dark metallic color, which forms a striking contrast to the crimson scarlet flowers; an excellent variety for vases, hanging baskets, etc. Pkt. 10c; oz. 25c

**Variiegated Queens.**—A new strain of tall Nasturtiums having beautifully variegated leaves; green, white and yellow; flowers large and of many bright colors.

**Superb Mixed.** Pkt. 10c; oz. 25c

**DWARF NASTURTIIUM**

**Tropeolum Minor.**—The flowers are very brilliant and attractive; plants 1 foot high and are often used for a border.

**Aurora.**—Reddish orange, veined carmine pink.

**Beauty.**—Yellow and scarlet; very attractive.

**Empress.**—Deep crimson; extra dark leaved.

**Golden King.**—A rich golden yellow.

**Regelianum.**—Purplish violet; dark and rich.

**Vesuvius.**—New salmon red; very beautiful.

Price, all above Dwarf varieties, Pkt. 5c; 6 for 25c; per oz. 20c.

**GOLDEN MIDNIGHT (New Dwarf).**—A novelty of real merit. From an artistic point of view the contrast between the light foliage and extremely dark flowers is most remarkable. The foliage is light yellow, variegated, while the flowers are deep crimson, almost black, hence the name, “Golden Midnight.”

Pkt. 10c; oz. 25c

**R. R.'s DWARF BEAUTY MIXTURE.**—Composed of new and rare sorts; exceedingly brilliant and beautiful.

Large Pkt. 10c; oz. 20c; 1/4-lb. 50c; lb. \$1.50.

**Choice Dwarf Mixed.**—Not equal to above, but far superior to most mixtures.

Large Pkt. 5c; oz. 15c; 1/4-lb. 30c; lb. \$1

**NICOTIANA**

**Affinis (Tuberose-flowered Tobacco).**—Delightfully sweet-scented, pure white, tubular flowers, blooming continually; annuals; 2 to 3 feet. Pkt. 5c; 1/4-oz. 25c

**NIGELLA—Love in a Mist**

**Damascena.**—A compact, free flowering plant with finely cut foliage, curious looking flowers and seed pods; hardy annuals; blue and white; 1 foot. Pkt. 5c; 1/4-oz. 15c

Mixed colors.

**Miss Jekyll.**—A lovely variety with cornflower blue blossoms; splendid for cutting. Pkt. 10c; 1/4-oz. 25c

**PENTSTEMON—Beard Tongue**

The handsome, brilliant flowers are borne on long terminal spikes, much resembling *Gloxinias*. Perennial; will bloom the first season if sown early; 3 feet. Try these.

**Hybrida Mixed,** Pkt. 15c; 2 for 25c

GROW “PRIZE FLOWERS” by using “WONDER ODORLESS FERTILIZER.” But do not use TOO MUCH, it is very RICH. See pg. 30.

## Giant Pansies

This popular flower thrives best on a cool, moist, but well-drained soil enriched with well-rotted barnyard manure or fine ground bone. Seeds sown early will produce fine plants for autumn blooming. The proper method, though, is to sow in July or August and protect the plants during the winter, when they will flower continuously early the following spring and summer.

**EXHIBITION PRIZE MIXTURE.**—For variety of markings, beauty of form, large size, splendid texture this superb strain cannot be excelled. **Pkt. 20c; 1/8-oz. \$1.50**

**E. J. Steele's Mastodon.**—Giant strain; Oregon grown seed.

**Mixed, Pkt. 25c; 1/8-oz. \$2.00**

**Bugnot's Large Blotched.**—A magnificent strain; very large flowers; great diversity of colors. **Pkt. 25c; 1/8-oz. \$1.00**

**Cassier's Giant, Finest Mixed.**—Strong-growing strain, producing rich and varied-colored flowers of large size. **Pkt. 15c; 1/8-oz. 75c**

**English Show Strain.**—A splendid strain, valued for the texture and varied markings of the flowers. **Pkt. 10c; 1/4-oz. \$1.00**

**Choice Mixed.**—A fine bedding strain. **Pkt. 5c; 1/4-oz. 50c**

**GIANT TRIMARDEAU.**—The most popular strain for this locality, and deservedly so, on account of the strong, sturdy plants and the enormous flowers of the greatest variety of colors.

**Finest Mixed. Pkt. 10c; 1/4-oz. 75c**

**Masterpiece.**—Elegant ruffled petals; beautiful large flowers, mostly rich dark shades. **Pkt. 25c; 1/8-oz. 75c**



Ruffled Giant Single Petunia.

## GIANT NAMED PANSIES

- Adonis.**—Light blue; beautiful. **Pkt. 10c**  
**Golden Queen.**—Pure rich yellow. **Pkt. 10c**  
**King of Blacks.**—Best velvety black. **Pkt. 10c**  
**Lord Beaconsfield.**—Very beautiful; violet purple, shading to white. **Pkt. 10c**  
**Madam Perret.**—Fine wine red shades on white. **Pkt. 10c**  
**Snowflake (Candidissima).**—Pure white. **Pkt. 10c**  
**Sunlight.**—New yellow, orchid flowered. **Pkt. 15c**  
**Purple-Eyed White.**—Very beautiful. **Pkt. 10c**  
**Black-Eyed Yellow.**—Very fine and effective. **Pkt. 10c**

## PORTULACA

One of the freest flowering dwarf annuals, especially adapted for sunny locations; flowers of the most brilliant colors; 6 inches.

- Single, Finest Mixed. Pkt. 5c**  
**Double, Finest Mixed. Pkt. 10c**

## PETUNIA

One of our easiest cultivated and freest flowering annuals. Will succeed almost anywhere and give a continuity of the most brilliant bloom from June till killed by frost. The strains we offer are the very choicest obtainable.

### SINGLE PETUNIAS

**Prize Mixture.**—Magnificent, large, exquisitely fringed and blotched flowers; vary in color from pure white to dark purple, and are often over 4 inches across. **Pkt. 35c; 1,000 seeds \$3.00**

**Ruffled Giants.**—Enormous flowers, having edges of petals beautifully ruffled and fluted; of great variety of colors, many being beautifully veined. **Pkt. 25c; 1,000 seeds \$1.50**

**Dwarf, Large-Flowering, Fringed.**—A new dwarf selection of the most beautiful ruffled and fringed type; compact, free-flowering plants; excellent for bedding or pots. **Pkt. 25c**

**Large-flowered, Finest Mixed.**—Fine, large flowers in superb mixture. **Pkt. 10c; 1/8-oz. 75c**

**Fine Mixed.**—An assortment of medium-sized flowers; fine for bedding. **Pkt. 5c; 1/8-oz. 25c**

### DOUBLE PETUNIAS

All of our Double Petunias are selected with greatest care, and contain as large a percentage of double flowers as it is possible to obtain.

**Giant Double, Finest Mixed Hybrids.**—An exceptionally fine strain; remarkable for the large, beautifully colored double flowers. **Pkt. 50c; 500 seeds \$4**

**Giant Double Mixed.**—Fringed, unsurpassed. **Pkt. 35c; 500 seeds \$2.50**

**Choice Double Mixed.** **Pkt. 25c; 500 seeds \$1.50**

WE GET OUR FLOWER SEEDS from the best American and European growers and THEY ARE OF "HIGHEST QUALITY."

**PHLOX**

**Drummondii.**—These varieties are the largest flowering of the annual phloxes. They are the very finest strains that can be selected, and should be grown in everyone's garden; 1 foot.

**Alba.**—Pure white, beautiful.

Pkt. 10c; ¼-oz. 25c

**Coccinia.**—Bright scarlet. Pkt. 10c; ¼-oz. 25c

**Leopoldi.**—Rose, white eye.

Pkt. 10c; ¼-oz. 25c

**Grandiflora Mixed.**—All colors.

Pkt. 5c; ¼-oz. 35c

**HARDY PERENNIAL PHLOX (Decusata).**

—These rank among the finest herbaceous perennials for beds and borders; mixture of the finest colors; 3 feet. (See plants, page 60.)

Pkt. 10c; ¼-oz. 35c

**PINK.**—(See Dianthus, page 41.)

**POPPY—Papaver**

**King Edward.**—New annual of gorgeous coloring; deep scarlet shaded; each petal marked with a big black blotch; yellow antlers; flowers large and freely produced; 2½ feet.

Pkt. 10c; ¼-oz. 25c

**Admiral (Annual).**—A single variety of surpassing beauty; large flowers of glistening white; with a broad band of brilliant scarlet around the top; produce a magnificent effect.

Pkt. 10c; ¼-oz. 25c

**Miss Sherwood (Annual).**—Single, bears large flowers of a satiny white, shaded a silky chamois rose, a combination of rare delicacy.

Pkt. 10c; ¼-oz. 25c

**Shirley (Annual).**—Single and occasionally semi-double; very desirable.

Pkt. 10c; ¼-oz. 25c

**Annual Superb Mixture.**—A superior strain, containing the choicest of single and double varieties in all of the brightest colors.

Pkt. 5c; oz. 50c

**Carnation Flowered (Annual).**—Splendid double fringed flowers.

Mixed Colors. Pkt. 5c; ¼-oz. 15c

**ICELAND, OR NUDICAULE (Perennial).**

—These are of a very graceful, neat habit, with bright green, fern-like foliage, formed in tufts, from which issue slender stalks, about 12 inches in height, bearing beautiful brilliant single flowers in endless profusion, and most useful for cutting. (For plants, see page 59.)

Yellow, White, Scarlet or Mixed.

Pkt. 10c; ¼-oz. 25c

**Double Iceland Mixed.**—Very choice.

Pkt. 15c; ¼-oz. 50c

**ORIENTALE BRILLIANT.**—This is the most gorgeous perennial Poppy, flowering in June and July, with enormous vivid scarlet blossoms.

Pkt. 10c; ¼-oz. 50c

**Oriental Princess Victoria Louise.**—Salmon pink; very silky and delicate.

Pkt. 15c

**Oriental Psyche.**—Delicate rosy blush.

Pkt. 15c

**CALIFORNIA POPPY.**—(See Eschscholtzia, page 42.)

**PRIMULA—Primrose**

The first two varieties named below are hardy, early-blooming, garden plants, and the others beautiful winter-blooming house plants. Their various forms and blending of colors are exceedingly pleasing and effective. They thrive best in a sandy loam and leaf mold.

**Polyanthus (Veris Mixed).**—Early blooming, dwarf growing plants, valuable for outdoor bedding; perennial.

Mixed. Pkt. 15c; ¼-oz. 50c

**Vulgaris (Veris Aurea).**—Yellow, common, English Primrose; hardy garden variety; perennial.

Pkt. 10c; ¼-oz. 35c

**Obconica Grandiflora Hybrids.**—A lovely, profuse bloomer, bearing beautiful clusters of single flowers; for pots only.

Pkt. 10c

**Obconica G. Gigantia.**—New giant, distinct, very beautiful.

Pkt. 25c

**Sinensis or Chinese Primrose.**—Beautiful, large, fringed flowers; especially fine for winter and spring flowers in the house; free bloomers.

Finest Mixed.

Pkt. 25c

**PYRETHRUM—Golden Feather**

**Aureum.**—Half-hardy perennials, grown as annuals; valuable for edging, as their yellow foliage makes a fine contrast with other bedding plants; 6 inches.

Pkt. 5c

**RICINUS—Castor Oil Bean**

A magnificent and highly ornamental genus, with picturesque foliage and stately growth, combined with brilliant colored fruit of the giant varieties; grown as single specimens on lawns and on pleasure grounds, they form a striking feature; hardy annuals.

**Zanzibarensis, Mixed.**—Very ornamental; dark bronzy green and red leaves; 8 to 10 feet high.

Pkt. 5c; oz. 20c

**Sanguineus Tricolor.**—Blood red stems, deep green leaves, with red veins; 6 feet.

Pkt. 5c; oz. 20c

**Gibsoni.**—New dark red foliage; 5 feet.

Pkt. 10c; oz. 25c

**Finest Mixed.**—All kinds.

Pkt. 5c; oz. 15c

**RUDBECKIA—Cone Flower**

**Bicolor Superba.**—Fine free-flowering annual variety; 2 feet; producing in great abundance on long stems its bright yellow flowers.

Pkt. 10c

**Fulgida.**—Hardy perennial sort, producing in masses during August and September brilliant orange-yellow flowers; 3 feet.

Pkt. 10c

**Newmani.**—Perennial; large, bright orange-yellow flowers.

Pkt. 15c

**SALPIGLOSSIS**

Produces very showy, funnel-shaped flowers of large size; fine for beds; half-hardy annuals.

**Grandiflora Mixed.**—Large-flowering.

Pkt. 10c

**SALVIA—Scarlet Sage**

This popular bedding plant produces a blaze of brilliant scarlet flowers in the garden during the late summer and fall. Seed should be started in the house during March; 2 to 3 feet.

**Splendens Compacta.**—A splendid semi-dwarf variety, with large spikes of rich scarlet flowers.

Pkt. 10c; ¼-oz. 50c

**Zurich.**—New dwarf, of special merit; fine flowers, and starts to bloom early.

Pkt. 20c; ¼-oz. 75c

**Fireball.**—The earliest semi-dwarf salvia; extremely floriferous.

Pkt. 10c; ¼-oz. 75c

**SCHIZANTHUS**

Beautiful garden annuals; flowers charmingly fringed and delicately colored; 1 to 2 feet.

**Grandiflora Mixed.**

Pkt. 10c

**PERENNIAL FLOWERS** are rapidly gaining in favor. **MORE** should be planted; they are beautiful in borders, beds or among shrubbery, and flower each year. See pgs. 57 to 60.

**SCABIOSA—Morning Bride**

Elegant, hardy annual; fine for cutting and bedding; flowers quite large and very showy, blooming freely during summer and autumn; 2½ feet.

**Finest Mixed.** Pkt. 5c; ¼-oz. 25c  
**White.**—Large flowers. Pkt. 5c; ¼-oz. 25c

**SHAMROCK—True Irish**

This is the genuine Shamrock, and is gathered by a connoisseur on the native land. Pkt. 25c

**SNAPDRAGON.**—(See *Antirrhinum*, pg. 37.)

**SMILAX**

One of the most graceful climbers for greenhouse or conservatory. Pkt. 10c

**STOCK—Gilliflower**

By far one of the most popular annuals for garden or greenhouse culture. They are superb for cutting, and are of great value to florists for bouquet work. Flowers are of delicious fragrance, large, double, and borne on handsome spikes.

**LARGE-FLOWERED TEN WEEKS.**—A splendid double-flowered strain, especially adapted for bedding and pot culture; pyramidal spikes of brilliantly colored flowers; 1 foot.

**Finest Mixed.** Pkt. 10c; ½-oz. 50c

**GIANT PERFECTION, OR CUT-AND-COME AGAIN.**

Grown for us in Europe, where the greatest possible care is taken in the selection of good seed. Of branching habit, 1½ feet, and 85 to 90 per cent of large, double flowers; fine for cutting.

**White, Light Blue, Crimson, Dark Blue, Pink, Yellow, or Finest Mixed.**

Pkt. 10c; ½-oz. 60c

**BEAUTY OF NICE.**—A handsome, new winter stock of quick growth; flowers of large size; 2 feet.

**Mixed.** Pkt. 10c; ½-oz. 60c

**Princess Alice.**—Double white. Pkt. 15c

**Queen Alexandra.**—Soft rosy lilac. Pkt. 15c

**Beauty of Nice.**—Delicate flesh pink. Pkt. 15c

**SUNFLOWER.**—(See *Helianthus*, page 43.)

**SWEET WILLIAM**

Hardy biennial, widely grown for the handsome, showy heads of brilliant flowers from June to September; 1½ feet.

**Single Mixed Varieties.** Pkt. 5c

**Double Finest Mixed.** Pkt. 10c

**THUNBERGIA**

Extremely pretty yellow flowers with dark eye; rapid-growing annual climber; used largely for vases, window boxes, etc.; will flower all summer till frost; 5 feet.

**Finest Mixed.** Pkt. 5c; ¼-oz. 30c

**TRITOMA—Red Hot Poker**

Striking and exceedingly ornamental autumn flowering plant. Showy flower spikes, shaded red and yellow; 3 feet.

Pkt. 10c

**VALERIANA—Garden Heliotrope**

A fine old-fashioned hardy plant; flowers have a strong heliotrope odor; showy, red or white; fine for bouquets; 2 feet.

**Mixed.** Pkt. 5c

**VERBENA**

One of the finest annual bedding plants and also suitable for borders, baskets and window boxes; its heads of brilliant-colored flowers produce one mass of bloom throughout the summer.

**NEW GIANT.**—The most beautiful and remarkable variety yet introduced.

**Hybrida Mixed.** Pkt. 20c



**Verbena Monstrosa**

**MAMMOTH.**—A carefully selected and improved strain. The trusses and individual flowers are of the largest size, of brilliant colors; free blooming and of vigorous habit.

**White, Scarlet, Rose, Purple, Striped or Mammoth Mixed.** Pkt. 10c; ¼-oz. 50c

**Fine Mixed.**—A choice mixture. Pkt. 5c; ¼-oz. 25c

**VIOLET**

*Viola Odorata* is the well-known English Violet, a free-flowering, hardy perennial; easily grown from seed, though somewhat slow in germinating; succeeds best in partially shaded, moist places.

**Odorata.**—Blue or white. Pkt. 15c

**WALLFLOWER**

Very highly prized, old-fashioned plants, grown largely for their fragrance; half-hardy perennial varieties; 1½ feet.

**Single Finest Mixed.** Pkt. 5c

**Double Tall Branching, Finest Mixed.**—Frugrant; 3 feet. Pkt. 10c

**WILD CUCUMBER.**—(See *Echinocystis*, page 42.)

**ZINNIA—Youth and Old Age**

The plants come quickly from seed and make a fine display in a bed or border. Each flower lasts for several weeks, and the plants bloom abundantly until destroyed by frost; 1½ and 2 feet; annual.

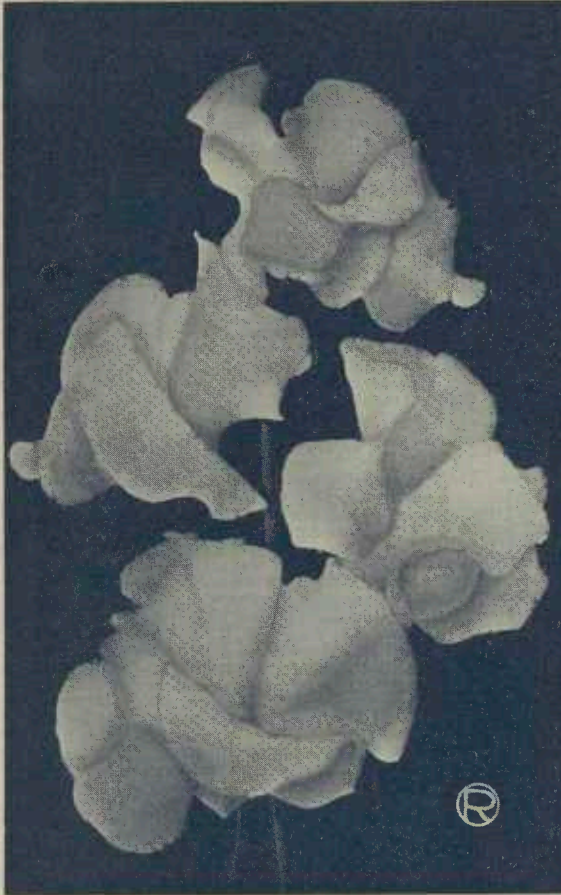
**ROBUSTA GRANDIFLORA.**—A very choice selection of the largest showy varieties.

**Double Mixed.** Pkt. 10c; ¼-oz. 40c

**MAMMOTH.**—White, Golden, Yellow, Scarlet or Flesh; 3 feet. Pkt. 15c; ¼-oz. 50c

**Tall Giant, Double Mixed.**—Elegant strain, comprising all colors; 2½ feet. Pkt. 5c; ¼-oz. 25c

“Up-to-Date” SWEET PEAS of “Highest Quality”



Margaret Atlee (2-3 life size)

**KING WHITE, 1914.**—Well and truly named, it certainly is “the king” of all sweet peas. In color, size and style of flower, length of stem and vigor, King White is unsurpassed. **Packets, 15c; ½ oz. 50c**

**MARGARET ATLEE—1914**—Recognized by experts as the “best cream pink” yet obtained. The giant flowers are rich, rosy salmon pink on creamy buff, immense wavy standards and wings inclined to double. **Packets only, 25c**

**MRS. CUTHBERTSON**—English introduction, standard clear rose pink in color, wings white, with slightest flushing of pale rose. Clear away in front of everything in its class; four giant flowers on nearly every stem; very effective. **Pkt. 15c; ½ oz. 40c**

**ELFRIDA PEARSON**—A magnificent and a very large pale pink flower, of a lovely shade. A vigorous grower, producing plenty of fours. This pea should be grown by every exhibitor.

**Packet 15c; ½ oz. 25c; oz. 40c**

**MARIE CORELLI**—Rosy carmine, tinted cherry red; beautifully waved. Award of merit; very distinct.

**Packet 15c; ½ oz. 25c; oz. 40c**

**QUALITY and TRUENESS is what makes the price in Sweet Peas. Low prices never bought “HIGHEST QUALITY” Seeds.**

No Seed Company in the world offers better sweet pea seed than we. By field trials of the improved varieties from American and European growers we are enabled to select the best under each color for our customers.

This year we have “new novelties” to offer of special merit. We have discarded the “Unwin” class and many “Spencers” and Grandiflora types, and we offer you only the Cream of all Sweet Peas. The Best by Test.

Two New Novelties

WEDGEWOOD—1915—

Morse’s Reselected Strain—1915. Flowers bright silvery blue in color and of fine large full wavy form, some duplex. Might be called a pure lavender, and will surely become very popular. **Packets only, 25c**

ROYAL PURPLE—1915—

The latest Spencer novelty and a new shade, heretofore unknown in sweet peas—Royal Purple will no doubt be welcomed by the “Elks.” Beautiful, large flowers of a royal purple. **Packets only, 25c**

1915 Prize Collection  
LATEST AND BEST NOVELTIES OF GIANT SIZE

The following varieties are of REAL MERIT that have won prizes.

Special—One packet each (10 kinds), value \$1.55, only \$1.00.

**DECORATOR—1913**—The color is old rose with a sheen of terra-cotta giving a bright orange effect. The placement and poise of the flower is perfect. When exhibited, this variety never fails to attract attention.

**Packets only 15c; 2 for 25c**

**MAUD HOLMES**—An English introduction and superior to others in this color. Elegant form and type and a beautiful crimson scarlet, giant, wavy flowers, four to a stem. **Packet 15c; ½ oz. 25c**

**EARL SPENCER**—A very beautiful, rich, brilliant salmon-orange self, of largest size and best Spencer wavy type; the flowers are usually produced in fours on long, stout stems. It might be described briefly as a richer colored Henry Eckford Spencer. **Packets 15c; ½ oz. 35c**

**MARTHA WASHINGTON**—A beautiful large wavy flower, almost pure white, edged carmine rose, very dainty and effective. **Packet 15c; ½ oz. 25c**

**MASTERPIECE**—The finest lavender, absolutely true and fixed. On account of its reliability and true, pure color, we believe it is the best lavender.

**Packet 10c; ½ oz. 20; oz. 35c**

## Spencer Sweet Peas of Real Merit—Continued

No seed house offers a more select list. We classify under colors for your convenience. SPECIAL—Make up your own collections, 60c worth for 50c; \$1.25 for \$1.00



### WHITE

- ETA DYKE**—The largest and most exquisitely formed pure white Spencer according to N. S. P. S. Beautifully waved; color absolutely pure. **Pkt. 10c; oz. 35c**
- KING WHITE**—(See "Novelties," page 49.)
- NORA UNWIN**—Pure white and large in size; exquisitely crinkled, wavy petals. **Pkt. 5c; oz. 20c; 4 oz. 50c**
- WHITE SPENCER**—A pure white, of enormous size and splendid substance; long, strong stems; very popular. **Pkt. 10c; oz. 25c**
- KENOPHON**—A decided novelty, most distinct and attractive. Large flowers, full and wavy, many have a double standard and come 3 and 4 to the stem. Color white, suffused and edged lavender. **Pkt. 10c; ½ oz. 25c**

### CREAM—BUFF

- CLARA CURTIS**—The best light yellow in color and size. Placed at the head of the list by N. S. P. S. **Pkt. 10c; oz. 25c**
- PRIMROSE SPENCER**—A pronounced primrose or creamy white; excellent flower. **Pkt. 10c; oz. 25c**

### CREAM—PINK

- ETHEL ROOSEVELT**—A soft, pleasing primrose overlaid with dainty bright pink. **Pkt. 10c; ½ oz. 25c**
- MARGARET ATLEE**—(See "Novelties," p. 49.)
- MAY CAMPBELL**—A most distinct sweet pea; ground color cream, standard marbled in center with carmine, wings slightly veined with same color. A. M., N. S. P. S. **Pkt. 15c; ½ oz. 25c**
- MRS. W. C. BREADMORE**—An English introduction of exquisite beauty. Buff ground, beautifully shaded with pink; large. **Pkt. 10c; oz. 25c**
- MRS. HENRY BELL**—Giant flowers of finest form. A most charming rich pink on cream. Magnificent in every respect. **Pkt. 10c; oz. 35c**

### LIGHT PINK

- CONSTANCE OLLIVER**—A refined variety of great beauty and form; rich, rosy delicate salmon pink; charmingly waved and crimped. The large, beautiful flowers, usually in fours well placed on long, strong stems. **Pkt. 10c; oz. 35c**
- ELFRIDA PEARSON**—(See "Novelties," page 49.)

**MRS. HUGH DICKSON**—The best light pink to date. A European novelty of sterling merit. You will be delighted with this. **Pkt. 15c; oz. 40c**

**MRS. RUTZAHN**—A lovely combination of apricot and pink. Beautiful, large wavy flowers. Praised by all who have grown it. **Pkt. 10c; oz. 35c**

**MARTHA WASHINGTON**—(See "Novelties," page 49.)

### PINK

- COUNTESS SPENCER**—Improved strain. Flowers extremely large, beautifully expanded, crumpled and waved. Color soft shell pink, deeper at the outer edges. True seed. **Pkt. 10; oz. 25c**
- MRS. A. IRELAND**—The form is most beautiful; petals waved and crinkled; distinct serrations on edges of standard. The extra large, long-stemmed flowers are most attractive; the best rosy pink. **Pkt. 10c; oz. 25**

### ORANGE OR SALMON

**NOTE**—To get the most delicate shade in this color, flowers should be lightly shaded.

**BARBARA**—Salmon-colored self of large size. It makes a "telling" bunch either for exhibition or table decoration, and is most effective. **Packet 15c; ½ oz. 50c**

**Decorator**—(See "Novelties," page 49.)

**EDROM BEAUTY**—This grand variety is a fine orange-salmon colored flower. It is an excellent grower, producing fours in abundance. A. M., N. S. P. S. **Pkt. 15c; ½ oz. 35c**

**Earl Spencer**—(See "Novelties," page 49.)

**HELEN LEWIS SPENCER**—Very popular with florists and large growers. A profuse bloomer. Flowers large, nicely waved and of an intense rich crimson-orange or salmon pink. **Pkt. 10c; oz. 25c**

**THOS. STEPHENSON**—Recognized by the N. S. P. S. as the best and most brilliant orange. Flowers are very beautiful, extra large, and come 3 and 4 to the stem. **Pkt. 10c; oz. 35c**

### LAVENDER

**ASTA OHN SPENCER**—Color a beautiful lavender; flowers large, wavy and generally come four blossoms to the stem. We offer a very select strain. **Pkt. 10c; oz. 35c**

**CHARLES FOSTER**—The color is a peculiar combination of mauve and pink; very distinct. **Pkt. 15c; ½ oz. 35c**

**FLORENCE NIGHTINGALE**—Burpee's lavender introduction, but we do not think it equal to others under this heading. Giant flowers on long stems; bluish lavender. **Pkt. 10c; oz. 30c**

**FLORA NORTON SPENCER**—A beautiful shade of light blue or lavender; very desirable. **Pkt. 10c; oz. 35c**

**Masterpiece**—(See "Novelties," page 49.)

**Wedgewood**—(See "Novelties," page 49.)

### SCARLET—CRIMSON

**GEORGE STARK**—Awarded 4 F. C. C. and 1 medal. Flowers of perfect form, waved and fluted; of large size. The wings are of the same intense bright pure scarlet as the standard, making a uniform self-color throughout and absolutely sunproof. The best scarlet to date. **Pkt. 10c; ½ oz. 20c; oz. 35c**

**KING EDWARD SPENCER**—Of vigorous growth, profuse bloomer, giant flowers; most popular scarlet; long stems. **Pkt. 10c; oz. 35c**

**Maud Holmes**—(See "Novelties," page 49.)

**VERMILLION BRILLIANT**—Flowers not very large but the most "brilliant scarlet" sweet pea to date. **Pkt. 10c; ½ oz. 35c**

## Spencer Sweet Peas—Continued

### DARK RED—CLARET

**ARTHUR GREEN.**—This is a magnificent new variety of largest size and distinct shade. The general color effect is that of dark claret. Pkt. 15c; ½ oz. 25c  
**Maud Holmes.**—(See “Novelties,” page 59.)

**OTHELLO SPENCER.**—The stems are strong and long, with three or four fine, very large blooms of a rich deep maroon. Pkt. 10c; oz. 25c

**PRINCE OF ASTURIAS.**—A grand, extra large flower of excellent form; deep dark red; very rich; a profuse bloomer. Pkt. 10c; oz. 25c

### BLUE—PURPLE

**CAPTAIN OF THE BLUES, SPENCER.**—Clear purple, blue; a bright striking color. Pkt. 10c; oz. 25c

**MRS. G. CHARLES.**—A new shade of deep blue, large wavy flowers of excellent form. Pkt. 15c; ½ oz. 25c

**MRS. CUTHBERTSON.**—See Novelties, pg. 49.

**ROSIE ADAMS.**—New, peacock blue, a color that has long been wanted; try it. Pkt. 10c; oz. 35c

**Royal Purple.**—(See “Novelties,” page 59.)

### DISTINCT AND SHADED

**RAMONA SPENCER.**—Very attractive, clear white, with soft, delicate lines and flakes of bluish pink. Pkt. 10c; oz. 25c

**SENATOR SPENCER.**—Claret and chocolate stripe, on light ground, large and most distinct, much admired; a profuse bloomer. Pkt. 10c; oz. 35c

**MRS. WILCOX.**—Bright and attractive; white, striped bright red; very pretty. Pkt. 10c; oz. 25c

## R. S. & F. Co.'s Giant Spencer Collection

We have put up, in one large, beautifully lithographed envelope, seven distinct and new Giant “Spencers”; each kind in a separate packet and properly marked. This collection contains “Cultural Directions” and one full-sized packet of the following kinds:

- White Spencer.—Grand pure white.....10c
- Primrose Spencer.—Creamy yellow.....10c
- Mrs. W. C. Breadmore.—Beautiful pink...10c
- King Edward Spencer.—Best scarlet.....10c
- Asta Ohn Spencer.—Popular lavender.....10c
- Helen Lewis Spencer.—Rich Orange.....10c
- One Novelty.—Some choice variety.....15c

### THIS 75c COLLECTION FOR ONLY 50c POSTPAID.

NOTE.—In case of shortage we reserve the right to alter above collection to other varieties of same color and equal value. For full descriptions of above varieties see classification under colors.

## R. R.'S Superb Giant Spencer Mixture Sweet Peas

This is our own special mixture and is composed only of the best giant orchid-flowered wavy Spencer types, also contains some new seedlings that have not as yet been named. For healthy, robust growth, wealth of blooms, size of flowers and exquisite and rare colorings, this mixture is unequalled.

Put up and for sale in sealed packages only, ½-oz. pkts., 15c; oz. pkts., 25c each; 3 for 60c; 6 for \$1.00.

## Popular and Best Grandiflora Sweet Peas

Aside from the preceding varieties, these are the “cream” of over 100 named varieties. Prices: Your selection, pkt. 5c, 6 pkts. for 25c; oz. 10c, 6 1-oz. pkts. 50c; ¼-lb. 25c; lb. 85c.

**Dorothy Eckford.**—A good white of the largest and best grandiflora type. A free bloomer.

**Mrs. Collier.**—A rich primrose tint, entirely free from any trace of pink.

**Lovely.**—Beautiful shades of soft shell pink, changing to very light rose at the outer edges.

**King Edward VII.**—Large flowers of open form, bright crimson-scarlet. Long stems; fine flowers.

**Henry Eckford.**—A bright, soft flaming orange, deepening slightly in the center. Large and beautiful.

**Miss Willmott.**—A bright orange-pink, showing veins of a deeper tint.

**America.**—Heavily striped with bright red on silvery white ground.

**Lady Grisel Hamilton.**—A grand, pale lavender. Planted extensively by florists.

**Lord Nelson (Brilliant Blue).**—Very large, slightly hooded, the most desirable blue.

## Rose City Mixture of Grandiflora

Extraordinary care has been taken in the selection of the varieties and the quantities of each to make up the mixture, and the result is one that cannot fail to excite the admiration of even the most critical.

Large Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c

### Cupid Sweet Peas

Compact dwarf plants, not over six or seven inches high. Flowers of good size and substance. For edgings, low beds and pot culture they are unique and pretty.

Mixed, Pkt. 5c; oz. 15c; ¼ lb. 40c; lb. \$1.25

## Winter Flowering (Forcing)

For florists' use for forcing in greenhouses for winter flowers.

Following varieties all 10c pkt... Oz. ¼-lb.

- Christmas White.—(Florence Denzer) ..... 20c 50c
- Christmas Pink.—Pink and white 20c 50c
- Christmas Meteor.—Bright red... 20c 50c
- Earliest Sunbeams.—Primrose .. 20c 50c
- Mrs. F. J. Dolansky.—Light pink 20c 50c
- Mrs. Wm. Sims.—Salmon pink... 20c 50c
- Mrs. A. Wallace.—Lavender..... 20c 50c

### Double Mixed

These generally bloom about 50 per cent double flowers. Pkt. 10c; oz. 20c



## BEAUTIFUL FERNS

A home, no matter how lavishly furnished, is not complete without decorative plants and palms.

The bold, majestic palms and delicate, feathery foliage of the ferns lend a grandeur and magnificence that cannot be obtained in any other way.

**OSTRICH PLUME** (See cut)—The fronds of this popular variety are the most delicate and plume-like. They are beautiful, full and fluffy, well-grown plants; are truly magnificent and last well in the house. **Choice plants, 20c to 35c, post paid; specimen plants in pots, \$1.00 to \$2.00; extra large, \$2.50 to \$3.50.**

**BOSTON FERN**—One of the most beautiful and useful of house plants. It is of easy culture, and its sword-like fronds, in large specimens, attain a length of 3 to 4 feet, produced in a bewildering mass, arching, curving and interlacing in every conceivable direction.

**Choice plants, 20c to 35c, post paid; specimen plants in pots, 75c to \$1.00; \$1.50 and up to \$2.50.**

**ASPARGUS SPRENGERI (Emerald Feather)** (See cut No. 1)—This is undoubtedly one of the handsomest and most valuable evergreen trailing plants for the house and conservatory ever introduced. It is especially valuable for pots, vases, baskets, etc., covering all with its beautiful sprays of lovely green, feathery foliage; quite hardy and valuable for hanging baskets or porch boxes in summer if given partial shade and plenty of water.

**Choice plants, 20c to 30c, postpaid; specimen plants in pots, 35c to 75c; extra large pots or baskets, \$1.50 to \$2.50.**

**ASPARGUS PLUMOSUS (Climbing Lace Fern)** (See cut No. 3)—A finer and more delicate plant than the Sprengeri, but hardy and easily grown. Very satisfactory for window and house culture. An extremely graceful window climber, bright green, feathery foliage, as fine as the finest silk or lace.

**Choice plants, 20c to 30c, postpaid; specimen plants in pots, 35c to 75c.**

**MAIDEN HAIR FERN (Adiantum Cuneatum)**—A very beautiful and graceful fern. **Small plants, 20c, postpaid; choice plants in pots, 35c and \$1.00 each.**



Ostrich Plume Fern

### Filled Fern Dishes

These are pretty, popular, fashionable and very desirable for center pieces for the tea or dinner table or as ornamental plants on the sideboard or center tables.

**A choice collection of plants in pretty matt green dishes, \$1.50 to \$2.00. In fancy dishes \$2.00 to \$3.50. (See cut No. 2.)**

**NOTE.—Must go by express; cannot be mailed.**

### Beautiful Small Ferns

These handsome little ferns are used mostly in filling fern dishes, your choice of the following 20c each; 3 for 50c, postpaid.

**Aspidium Tsussimensense.**—Without question the most valuable of all ferns yet introduced for fern dishes; of strong but dwarf and graceful habit.

**Crytomium Falcatum (The Holly-Leaved Fern.)**—One of the most desirable, very hardy and pretty.

**Pteris Argyrea (Silver Fern)**—A very showy fern, with variegated foliage.

**Pteris Wilsoni.**—A very pretty and useful fern; green leaves with the ends very peculiarly crested; beautiful sort for fern dishes.



No. 1, Asparagus Sprengeri. No. 2, Filled Fern Dish. No. 3, Asparagus Plumosus.

**Specimen Plants.**—These are large, choice, well-shaped plants, growing in pots and are very beautiful. **They cannot be mailed.** We wrap and pack carefully and ship by express. **Read what we do about prepaying charges—inside front cover.**

## PALMS AND DECORATIVE POT PLANTS

Every one knows how beautiful palms and decorative plants are, and how much they improve the parlor, hall or dining room. We offer here only the best and most desirable kinds of the easiest culture, but we can supply rare tender specimens if wanted.

Note.—Potted plants cannot be mailed. Read note bottom opposite page as to size, etc.

### ARAUCARIA EXCELSIA\* (Norfolk Island Pine)—

This beautiful plant resembles the pine somewhat in appearance, though much finer in texture; it is particularly adapted to parlor decoration. It is most unique in appearance, the branches being arranged in neat, symmetrical whorls. They do not require much sun, and are hardy and easily cared for. (See cut No. 5.) **Choice plants in pots, 10 to 12 in., \$1.00 to \$1.50; 15 to 18 in., \$2.00; 18 to 24 in., and up, \$2.50 to \$4.00.**



No. 4, Aspidistra. 5, Araucaria Excelsior. 6, Kentia Palm.

**KENTIA** (See cut No. 6)—A beautiful, graceful, handsome-looking, strong-growing palm, with deep green, crisp foliage; inclined to dwarf and spreading habit. One of the most popular for house culture, as they are very hardy, and stand the dry atmosphere. If we could have but one palm, it would be a Kentia. (See cut.) **Small plants, 12 to 15 in., 75c to \$1.00, postpaid. Choice plants in pots, 18 to 24 in., \$1.50 to \$2.00; specimen plants, \$5.00 to \$25.00.**

**ASPIDISTRA** (See cut No. 4)—Stately decorative house plant of rapid and hardy growth. The leaves grow quickly from the ground to a height of 18 inches or more. Will stand more gas, dust, cold or heat than any other palm we know of. We have both green and variegated green and white. **Green or Variegated Leaves, fine specimens, in pots, \$1.50 to \$3.00 and up.**

**PHOENIX ROEBELENI** (See cut No. 7)—A new palm. One of the most graceful and the hardest. The horticultural world has enthused over this beautiful palm. It has

the grace and lightness of Cocos Weddelliana, but is more robust in growth and has ten-fold the foliage of that fine variety. Foliage from the ground up, gracefully recurved and spreading in habit. It will be most popular for house decoration. **Choice plants in pots, \$1.00 to \$2.00; specimens, \$2.50 to \$4.00.**

**RUBBER PLANT (Ficus Elastica)** (See cut No. 8)—This is certainly one of the best plants grown for decorative purposes. It succeeds well with ordinary treatment. Its glossy, thick, dark-green leaves are not effected by dust or gas. **Choice plants in pots, 12 to 18 in., 75c to \$1.00; 18 to 24 in., \$2.00 to \$2.50.**

**DRACAENA INDIVISA (Fountain Plant)**—This plant is unsurpassed for hardiness. Leaves graceful, long, narrow and pointed, used extensively for centers in pots, boxes or urns with other plants. Perfectly hardy outside in summer.

**Nice plants, 12 to 15 in., 35c to 50c, postpaid; 18 to 24 in., in pots, \$1.00 to \$1.50.**

### COCOS WEDDELIANA

(See cut No. 9)—The most elegant and graceful of all the smaller palms. Its slender, erect stem is freely furnished with its graceful arching leaves of rich green color. Small plants are very desirable for centers in fern dishes.

**Choice plants, 12 in., 50c to 75c, postpaid; 15 to 18 in., in pots, \$1.50 to \$2.00. Specimens, \$3.50 to \$5.00.**



No. 7, Phoenix. 8, Rubber Plant. 9, Cocos Palm.

Jardinieres, Pots, Japan Tubs, Etc.—We carry a full stock. See index for page number.

## CANARY BIRDS

Did you ever hear an imported Hartz Mountain Canary sing? They are the sweetest singers on earth. See page 123.



## Harvard Collection Japanese Chrysanthemums

Price, 15c each; sets of 10 sorts, \$1.00 postpaid.

- Emberta**—Beautifully incurved snow white blooms of waxy texture and finest finish. Good foliage.
- Ethel Fitzroy**—Extremely beautiful color, rosy, golden bronze; with nice big, incurved blooms.
- George Bruzzard**—A beautiful shaped bloom; bronzy red in color with reverse side of petals old gold.
- General Hutton**—Large in size, perfect in form and a superb golden yellow in color.
- Harvard**—Produces a good medium sized bloom of the darkest shade of crimson.
- Naomah**—Incurved white. Petals broad and incurving. Flowers of excellent substance.
- Pink Gem**—A beautiful broad-petaled, incurving variety, round and ruffled; one of the prettiest forms.
- Ramapo**—An excellent variety. The heavy golden yellow, richly colored.
- Roman Gold**—In this fine variety we have secured a sort which for richness of color excels all other yellow varieties to date. Comes shaded with bronze in cool weather.
- William Turner**—Pure white in color, and we have never seen anything larger or more impressive for the exhibition table. It is enormous in diameter, deep in build and very perfect in form.



"Incurved" Chrysanthemum Flower.

## St. Nicholas Collection Giant Carnations.

Price, 20c each; set of 8 sorts, \$1.25 postpaid.

- Bonora**—White ground prettily flaked with scarlet. A beautiful fancy variety.
- Commodore**—A splendid new scarlet Carnation which blooms throughout a long season. Flowers large, finely formed.
- Gloriosa**—Colors soft pure rose, so much admired by cut flower purchasers; flowers large, well formed, fine blooming.

- Pink Delight**—Crisp and beautifully formed flowers of a delicate salmon flesh color.
- Pocahontas**—The largest and best of its color, a bright dazzling crimson. Always in bloom.
- Rosette**—Producing all season large cerise-colored flowers in great freedom.
- St. Nicholas**—Rich, velvety scarlet, flowers in great profusion, large and fine.
- White Wonder**—A beautiful pure white, of excellent texture and extreme size.

## Victory Collection Everblooming Carnations.

Price, 15c each; 12 for \$1.25 postpaid.

- Afterglow**—Simply superb; brilliant dark pink.
- Beacon**—A bright, deep scarlet; soft, yet brilliant.
- Enchantress**—Flowers extra large, on long stems. The color is a superb shade of flesh pink.
- Eldorado**—A beautiful fancy sort, which is a bright yellow nicely flaked and streaked with crimson.
- Dorothy Gordon**—Large, rose pink flowers, exquisitely fragrant.
- Lady Bountiful**—Color pearly white; very large; delicately fringed.
- May Day**—Soft pink with silvery sheen, very fragrant.
- Mrs. C. W. Ward**—Rich, bright pink of glistening texture, superb free flowering sort.
- President Roosevelt**—Magnificent, bright, rich crimson; large, perfectly double flowers, deeply fringed.
- Victory**—Color richest shade of intense scarlet ever seen.
- White Enchantress**—A beautiful white sport from the famous pink Enchantress.
- Windsor**—The handsomest of all pink Carnations.



## Beautiful Single Geraniums.

Price, 10c each; set of 12 varieties, \$1.00 postpaid.

- Bellerophon.**—One of the freest blooming single scarlet bedding varieties; rich, glowing scarlet, crimson maroon shading on upper petals.
- E. Mollin.**—Large, rosy flesh shaded to white, very distinct.
- James Kelway.**—A most beautiful crimson scarlet, of fine size and satiny texture.
- Jacquerie.**—Rich, vivid crimson; immense trusses. Excellent for bedding; blooms freely, stands the sun well.
- Mad. Chapotan.**—Beautiful pink upper petals, marked with white; very pretty.
- Mildred Rival.**—Pure rose-pink, with conspicuous white blotch on two upper petals; flower beautifully formed, and the largest of its color.
- Maxine Kavolevski.**—Odd shade of orange red; very distinctive, splendid bedder, vigorous, handsome, a dependable sort.
- Mrs. E. G. Hill.**—Very large trusses; color, clear salmon, with a white center; one of the finest varieties.
- Mrs. J. M. Garr.**—A grand single white; plants a mass of white bloom.
- Mrs. A. Blanc.**—Silver salmon, shaded peach; glistening texture.
- Sam Sloan.**—Rich purple crimson color. One of our finest dark varieties.
- Tiffin.**—Flowers vivid scarlet, with white eye; very attractive.
- Wonder.**—Rich crimson maroon, of velvety texture.



Single Geranium.

## Grand Double Geraniums.

Price, 10c each; set of 12 varieties, \$1.00 postpaid.

- Beaute Poitevine.**—Very large, semi-double flowers of a brilliant salmon color.
- Bertha Pressily.**—Exquisite silvery pink, large flowers, one of the best.
- Francis Magnard.**—Fine, bright magenta shade, flowering very freely.
- Francis Perkins.**—The grandest bright pink bedding variety to date, exquisite.
- Golden Dawn.**—Rich orange scarlet, the nearest approach to yellow in geraniums.
- Heteranthe.**—A fine bedding variety, color bright vermilion red of a most pleasing shade. Trusses very large.
- John Doyle.**—Very large, double bright, velvety scarlet, charming variety.
- La Favorite.**—Trusses very large; flowers pure snow white; a favorite.
- Le Cid.**—Bright scarlet, very free and a fine bedding variety.
- Mme. Jaulin.**—Grand, large flowers, centers are delicate pink, bordered with pure white.
- S. A. Nutt.**—The best of the rich, dark crimson varieties; very popular.
- Alfonse Picard.**—Rich velvety scarlet; extra.

## Six Choice Fuchsias.

Price, 10c each; set of six sorts, 50c, postpaid.

- Annie Earle.**—Tube and sepals waxy white corolla single, clear carmine; plant splendid and free blooming.
- Dr. Brooks.**—Rich, dark blue corolla, with crimson sepals. A beautiful variety; never out of bloom.
- General Roberts.**—Flowers very large, corolla plum color, tube and sepals crimson; one of the finest varieties.
- Jupiter.**—This is a grand mammoth double flowered Fuchsia; flowers of enormous size, very large, rich violet corolla; tube and sepals bright crimson.
- Molesworth.**—Superb double white variety; tube and sepals bright scarlet; corolla large, double and waxy white.
- Snowstorm.**—The freest flowering double white variety; extra fine.

## Flowering Begonias.

Beautiful flowering plants of easy culture for the house.

Each 10c; 6 for 50c, postpaid.

- Alba Picta.**—A strong grower, pointed dark green leaves, profusely covered with pure white spots. Racemes of pretty flowers.
- Argentea Guttata.**—Handsome erect growing sort, with pointed wine-colored leaves with silvery white spots. Pure white flowers.
- Cuprea.**—A fine, erect Begonia, with dark, rough leaves; the panicles of unopened flowers are bright red, with surface like plush.
- Foliosa.**—The freest-flowering Begonia we have. Makes a handsome window plant, with its glossy green leaves and bright pink flowers.
- Incarnata.**—A strong, vigorous growing sort, bearing immense pendants of pretty pink flowers. A splendid winter-bloomer.
- Marguerite.**—Bronzy green, with purple cast; large trusses of cream and rose-colored flowers.



Begonia Incarnata.

## Rex Begonias.

Grown for the beauty of their foliage. The most ornamental of window plants. We offer the most distinct and handsomely marked varieties.

Price, choice plants, each 25c, postpaid

## HARDY PERENNIAL FLOWERING PLANTS

### You Should Plant More Perennials

No class of plants enjoy greater popularity at the present time than the Hardy Perennials. They have made rapid strides into public favor the past few years, until now they may be considered to have a prominent and a permanent place in our American gardens. Beginning almost before the snow is off the ground, early-flowering varieties open their blossoms, as welcome harbingers of spring. Almost every week until late in the fall some new variety bursts forth into entrancing loveliness, blooming so persistently as to almost defy Jack Frost in his efforts to subdue the floral kingdom. A start may be obtained at so small an expenditure as not to be counted when measured with the satisfaction and pleasure derived from them. Once planted they are there to stay, requiring very little care, increasing in size and bloom and growing better from year to year.

#### VERY LARGE CHOICE PLANTS—LOW PRICES.

This year we are in a position to supply you with the most desirable, new and popular varieties at lower prices than ever. We have 25,000 extra large field-grown plants in the following varieties, also many other kinds which limited catalog space will not permit us to describe.

**PRICES THIS YEAR:** All perennials unless otherwise priced are 15c each, \$1.50 per dozen, postpaid.

**NOTE.**—If you wish to pay express or freight charges we will send very large plants and leave more dirt on the roots.

**ANEMONE—Japonica.** These beautiful Wind-flowers are one of the most important hardy plants. They begin blooming early in August and continue in full beauty until cut down by hard frost. Excellent for bouquets, lasting for days when cut. 2½ to 3 feet.

See illustration on back cover.  
Named Kinds.

**Geante Blanche.**—Mammoth single white.

**Alice.**—New silvery rose, very large.

**Krimhilde.**—Rosy pink, large, semi-double flowers.

**Prince Henry.**—Rich pink, semi-double  
Each 20c; doz., \$2.00

Prices, your choice of above.

**Special.**—One each of the 4 choice kinds above only 65c, postpaid.

**Unnamed Varieties** in white, pink, rose or mixed,  
Each 15c; doz., \$1.50

**ARABIS—Rock Cress.** One of the most desirable of the very early spring flowering plants for edging and the rock garden. Forms a dense carpet, completely covered with pure white flowers. 6 inches.

**Alpina, single, each 15c**  
**Alpina, double, each 20c**

**ALYSSUM—Gold Dust.** (Sexatle Compactum.)—Large heads of golden yellow flowers in May and June; silvery foliage; fine for rockeries; 6 inches.

**AQUILEGIAS or Columbines.**—The Columbines are one of the most elegant and beautiful of hardy plants, producing their graceful spurred flowers on stems rising two feet or more above the beautifully divided foliage, and are highly prized for cutting; June to September.

**Mixed Colors—Each 15c; Doz. \$1.50.**

**New Long Spurred.**—Superb mixture of all the most desirable shades. Each 20c.

**Rose Queen.**—Beautiful rose color, with white center, yellow anthers. New.  
Each 20c.

**BELLIS PERENNIS—English Daisy.**

**Giganteum.**—Improved, double, large flowering; fine for edging or borders. Flowers extra fine. 2 inches across. **Double white or pink. Each 20c; doz. \$2.00**

**Double—Red or white. Each 10c; doz., \$1.00**

**BLEEDING HEARTS—See Dicentra page 58.**



**Aquilegia, Rose Queen.**

**CAMPANULAS—or Bellflowers.** Indispensable hardy garden flowers, of much variety of form, some being of tall and imposing habit, while others are dwarf, compact little plants suitable for edging, rock work, etc.

**Persicifolia (Peach Bells).**—Large bell shaped flowers during June and July. 3 feet. **Blue or white.**

**Medium Calycanthema (Cup and Saucer Canterbury Bells).**—A beautiful form of this favorite flower. **Blue, Rose, White or Mixed.**

**Pyramidalis (Chimney Flower).** Stately free flowering, 3 to 4 feet. **White or Blue. Each, 20c; doz., \$2.00**

**Gigantea Moerheimi.**—A grand sort with long stems of pure white double camellia-like flowers, 2 to 2½ inches in diameter; in bloom from the middle of May until late in July. 2 to 3 feet.

**Each 20c; doz. \$2.00**

**NOTE.**—New parcel post rates now enable us to send this class of plants by mail at prices quoted—a great saving.

## Hardy Perennial Flowering Plants—Continued

**PRICES**—All varieties, strong, field-grown plants, 15c each, \$1.50 dozen, unless otherwise priced. Largest plants always sent when ordered by express or freight.

### COREOPSIS.

**Lanceolata Grandiflora.** Popular hardy plants. The flowers are a rich golden-yellow, of graceful form and invaluable for cutting; the main crop comes during the latter part of June, but it continues in bloom the entire summer and autumn; it succeeds everywhere; 1½ feet.

**DAISY**—See "Bellis" for English, also "S" for Shasta Daisy

**DELPHINIUM**—Hardy Larkspur. These are deservedly one of the most popular subjects in the hardy border, bold, attractive and highly prepossessing plants of easiest culture; perfectly hardy; 3 feet.

**Light or Dark Blue or Mixed.**

**Belladonna.** The freest and most continuous bloomer of all, never being out of flower from the end of June until cut down by hard frost. Flowers clear turquoise blue. **Each, 20c; doz., \$2.00**

**King.** Mammoth new deep blue, semi-double. Very beautiful. **Each, 40c**

**Moerheimi.** A new pure white of real merit, large and very fine. **Each, 60c**

**DIANTHUS**—Hardy Carnations.

**Caryophyllus.** Hardy Carnation, in colors of red, white and pink. 1½ feet. Mixed.

**Flumaris.**—See Pinks, page 59.

**BARBATUS**—See Sweet William, page 25

**DICENTRA**—Bleeding Heart.

**Spectabilis.** An old-fashioned favorite; its long racemes of graceful heart-shaped pink flowers are always attractive. Perfectly at home in any part of the hardy border, and especially valuable for planting in the shade. (See cut.) **Each, 25c**



**Dicentra—Bleeding Heart.**

**DIGITALIS**—Foxglove. Old-fashioned, hardy, desirable plants with broad foliage and showy flowers borne on spikes. June and July. 3 to 4 feet. Mixed colors.

**Montrosa (Giant Foxglove).** Handsome, variously colored flowers in spikes surmounted with one large, saucer-shaped terminal flower. **Each, 25c**

**DORONICUM**—Leopards Bane. One of the most effective early flowering perennials. Very large, rich yellow single flowers with long stems during May, June and July; 2 feet. Often called Yellow Marguerite.

**EULALIA**

**Japonica Variegata.** A very ornamental variety; long, narrow leaves, striped green, white and often pink or yellow.

**Small plants 15c to 25c; clumps 50c to 75c ea**

**FORGOT-ME-NOT**—Myosotis

**Palustris.** A variety that is hardly ever out of flower; useful in a shady spot in the border.

**GAILLARDIA**—Blanket Flower

**Grandiflora.** One of the showiest of perennials. Rich and pleasing flowers ranging from red to yellow around a dark maroon center; excellent for cutting; 3 feet; June to frost.

**GYPSOPHILA**—Baby's Breath

**Paniculata.** Minute white flowers borne in enormous quantity in open panicles during summer months. Be sure and have a few plants of this for cutting, as it works up beautifully in bouquets of other flowers; 3 feet.

**Paniculata Fl. Pl.** New. Delicate double white flowers. Very pretty. **Each, 25c**

**HOLLYHOCKS.**—Few hardy plants combine as many good qualities as the Hollyhock. For planting in rows or groups on the lawn, or for interspersing among shrubbery they are invaluable. The flowers form perfect rosettes of the most lovely shades of color. We offer strong plants, which will flower this season. **Separate or mixed colors.**



**Delphinium (Plant and Flower Spike.)**

**Annual Flowering Plants.**—During April and May we have thousands of Plants for porch boxes, beds and border. See pages 54-55-56.

**PRICES**—All varieties, strong field-grown clump, 15c each, \$1.50 dozen, unless otherwise priced. Largest plants always sent by Express or Freight.

**HELIANTHUS—Hardy Sunflowers.**

**Multiflorus Maximus.** A gigantic single variety; 5 feet, golden-yellow; August to September. One of the finest.

**Multiflorus Fl. Pl.** Large, double, golden-yellow flowers in great profusion during July and August; 4 feet.

**Soleil d'Or.** Deep golden-yellow, quilled petals, not unlike a Dahlia; 4 feet. August and September.

**Sparsifolius.** Gracefully formed single variety, large, deep yellow color, long stems; splendid for cutting; August to September; 6 feet.

**HYPERICUM—St. John's-wort.**

**Moserianum (Gold Flower.)** Of drooping, trailing nature. Fine for rockeries, etc. Free flowering. Rich golden-yellow. June to frost. Each, 15c; large plants, 25c

**IBERIS—Hardy Candytuft.**

**Sempervirens.** Most desirable dwarf plants with evergreen foliage, which is completely hidden with dense heads of white flowers early in the spring.

**LUPINUS—Lupine.**

**Polyphyllus.** An effective plant, producing large, long spikes of blue flowers. June. Each, 20c

**Roseus.** A very pretty variety with rosy-pink flowers. Very effective; 3 feet. June. Each, 20c

**PAPAVER—Hardy Poppy**

**Nudicaule (Iceland Poppy.)** A beautiful race and among the most desirable of our herbaceous plants. The plant forms tufts of fern-like foliage, from among which the slender flowers-stalks rise to about a foot in height and bear fragrant, cup-shaped flowers of white, yellow and orange-scarlet. The profusion of bloom is astonishing. June to October.

**Oriental.** Bright red with a black blotch at the base of each petal. June to July.

**Oriental Brilliant.** Bright vivid scarlet. Each, 20c to 25c



**Coreopsis Lanceolata.**

Sutherland, Ore., May 4, 1914.

Routledge Seed & Floral Co.

Gentlemen: I was delighted with my first order to you, and enclosed find 65 cents for another.

Yours truly,

MRS. C. W. HARTLEY.

**PAMPAS GRASS.**

A noble ornamental grass, easily grown, producing long, narrow pointed leaves and majestic, silvery white plumes, which are very valuable for winter decoration. Grows 6 to 8 feet high.

**Gynerium Argenteum.**—Young plants, 25c; strong roots, 35c to \$1.00; large specimen plants, \$1.50 to \$2.50 up.

**PINKS—Dianthus.**

**Flumaris.** Bearing sweet clove-scented flowers in the greatest profusion during May and June. Indispensable for the hardy border and for cutting. 1 foot.

Finest colors. Mixed.

**PRIMULUS—Frimrose**

The hardy primroses are among the most beautiful and interesting of our early spring flowers.

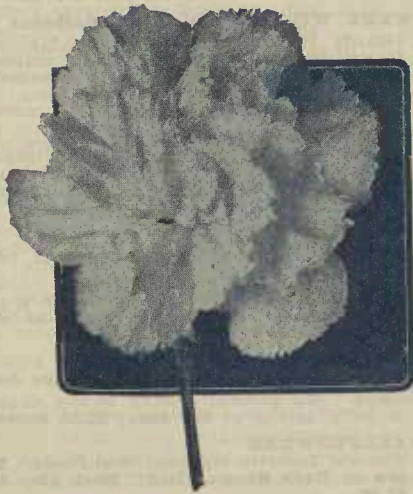
**Veris (English Cowslip).** The richest shades, from pure yellow to the deepest crimson maroon.

**Vulgarus.** Canary yellow, very early and fragrant.

**PHLOX HARDY—**

**Subulata (Moss, or Mountain Pink).** An early spring-flowering type, with pretty moss-like evergreen foliage, which, during the flowering season, is hidden under the masses of bloom. An excellent plant for the rockery, the border, and invaluable for carpeting the ground or covering graves.

Pure White, Lavender, Purplish Rose, Bright Rose, or Mixed. Each, 15c; doz., \$1.50 postpaid.



**Hardy Garden Pink.**

**REMEMBER:** All prices of above stock is 15c each, \$1.50 dozen (unless otherwise priced) and is for large 2-year, field-grown clumps, that will bloom profusely the first season.



## Hardy Perennial Flowering Plants—Continued

**PRICES**—All varieties, strong, field-grown plants, 15c each, \$1.50 dozen, unless otherwise priced. Largest plants always sent when ordered by express or freight.

### PHLOX—Continued

**Amoena.**—Best for carpeting the ground, the rockery or the border; it grows but 4 inches high, and in spring is a sheet of rich, bright pink flowers.

Each, 15c; doz., \$1.50

### PHLOX.

**Decussata.** Among the hardy perennial plants no class is of more importance than the Phloxes, succeeding in almost any soil and position, and flowering through a long season. Excellent for cutting and decorating or for mass effects. Keep well in water.

**Mixed Colors.** Each, 15c; doz., \$1.50 postpaid.

### Choice Named Varieties.

Price, Each, 15c; doz., \$1.50 postpaid.

**Bridemaids.**—White with a crimson eye.

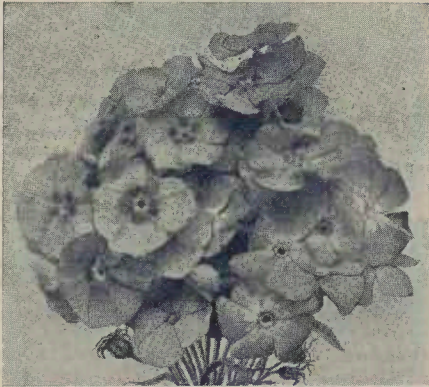
**Coquelicot.**—A fine pure scarlet, crimson eye.

**Champs Elysee.**—Bright rose magenta.

**Mrs. Lingard.**—Pure white, blooms early and continuously.

**Von Goethe.**—Beautiful pink with white eye.

**Obergartner Wittig.**—Bright magenta, crimson eye; large flowers of finest type.



Phlox Decussata.

### Extra Selected Varieties.

The following new sorts have immense panicles of blooms and are very choice.

Price, each, 20c; doz., \$2.00, postpaid

**Mrs. Jenkins.**—Immense panicles of large white flowers. Best for mass planting.

**Gen. van Hentsz.**—Brilliant salmon-red, white eye, very large flowers.

**E. P. Struthers.**—Bright rosy-carmine, red eye.

**Eugene Danzenvillier.**—Lilac, shading to white. Free and continuous bloomer.

**Gruppen Koenigin.**—Beautiful salmon.

**Henry Pleiderer.**—Elegant salmon pink.

Houston, Tex., July 7, 1914.

Routledge Seed & Floral Co.

Gentlemen: I was presented with one American Beauty from your house which I planted at Xmas time. It has bloomed three times and grown to six feet in height, which I think remarkable considering our hot climate.

Yours truly,

MRS. C. H. REIS.

### RUDBECKIA—Cone-flower.

Indispensable plants for the hardy border; grow and thrive anywhere, giving a wealth of bloom, which are well suited for cutting.

**lanceatus (Golden Glow).** Flowers beautiful golden-yellow; very double. Marvelous continuity of bloom from June till late fall; 6 to 8 feet.



Shasta Daisy.

### SHASTA DAISY—Burbank

**Chrysanthemum Leucanthemum Daisy.** Very large daisy-like flowers, often measuring 4 to 5 inches across, having three or more rows of petals of the purest white. Flowers produced in great profusion on long strong stems. Very popular; 2 to 3 feet.

Each, 10c, 15c and 20c

### SWEET WILLIAM—Dianthus Barbatius

(Hardy Biennial). This fine old-fashioned flower is always desirable and makes a fine show in bloom, June to September. The new improved types are rich and charming. All colors mixed.

### TRITOMA—Red-Hot Poker

The early, free and continuous blooming qualities of the newer varieties have made Tritomas one of the great bedding plants; 3 to 4 feet flower spike.

### VIOLETS

**California.** Single. Very showy and beautiful.

**Double Russian.** Flowers double of gigantic size; color, a very rich shade of blue, and extremely fragrant.

**Small Plants,** single or double and blue or white. 10c each; \$1.00 per dozen

**Clumps.** We generally have strong Clumps in early spring at 25c each; \$2.50 dozen.

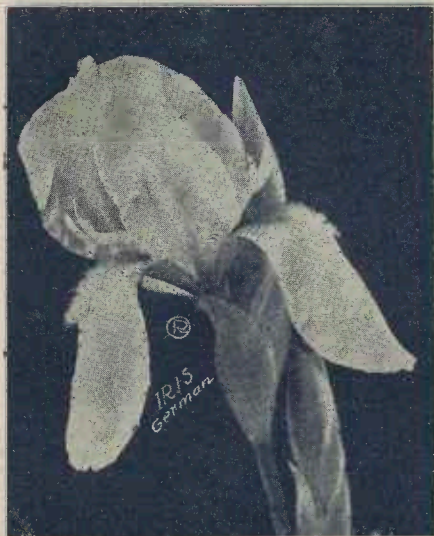
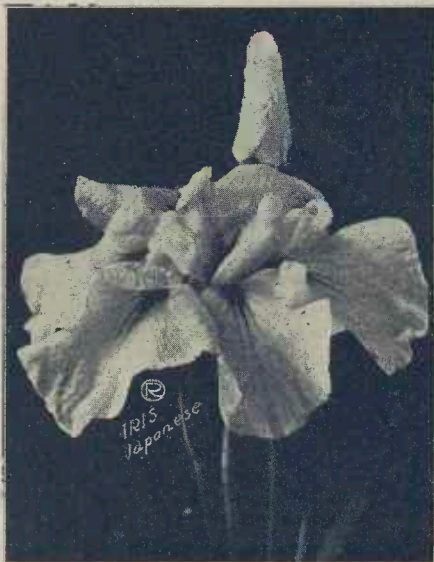
### WALLFLOWERS

The old favorite fragrant Wallflower. Yellow or Dark Brown (Red). Each 15c; doz., \$1.50.

**REMEMBER:** All prices on above stock is 15c each, \$1.50 dozen (unless otherwise priced) and is for large 2-year, field-grown clumps, that will bloom profusely the first season.

## IRIS

Magnificent plants for the garden. They bloom profusely and are exceedingly showy and fragrant. The colors are brilliant and cover a wide range of different shades and combinations. In the open ground they are perfectly hardy, increase rapidly and make a magnificent display, either in groups or borders. When the clumps get too large take up in the fall, divide and reset. Plant in the fall or early spring. English and Spanish ready in October. (See our Fall Bulb Catalog.) German and Japanese ready in December; native stock earlier.



### Japan Iris—Kaempferi

The Japanese Iris is quite distinct from all others, and never fails to excite the admiration of all who see it. It is becoming more popular each year. The enormous flowers produced in June and July display a marvelous blending of rich and rare shades. They like a rich soil and plenty of water when in bud and flower. We offer a select collection of named varieties, as well as a very fine mixture.

Mixed, good assortment: Each, 15c; doz., \$1.50

#### SELECT NAMED JAPAN IRIS

YOUR CHOICE EACH, 20c; DOZ., \$2.00

- Haker-O-Den.** Beautiful, large, six-petaled white.
- O-Sho-Kum.** Deep blue, showing darker veins, six petals.
- En-U No-Sora.** A charming pink shading to rose, six petals.
- Momiji-Ga-Take.** Deep rich blood red, edge of petals lighter, six petals.
- Gei-Sho-Ui.** Bright red, beautifully frilled, six petals.
- Shi-Chu-Ka.** Creamy white shaded and edged carmine, six petals.
- Kumo-Ubi.** Light blue or lavender pencilled yellow to the center.
- Ho-So-Kawa.** Rich royal purple, yellow and white markings in the center, six petals.

### German Iris—Iris Germanica

The German Iris are among the most desirable and easiest grown of our spring-flowering hardy plants, producing in May their showy flowers of exquisite coloring, combining the richest and most delicate tints. Fine for cutting. For best results plant in a rich, well-drained soil, sunny position preferred, 12 inches or more apart. Avoid fresh manure in preparing your beds.

**CHOICE MIXED**—All fine varieties.

Each 10c; Doz. \$1.00

**NAMED VARIETIES AS FOLLOWS:** Each, 15c; doz., \$1.50.

- Darius.** Standards lemon yellow; falls lighter.
- Florentina Alba.** An excellent variety for cutting and an early bloomer. Flowers ivory white tinged with lilac.
- Florentina Blue.** Tall and vigorous; deep dark blue.
- Honorable.** Intense yellow; falls a beautiful bronze.
- Madam Chereau.** Pure white edged with azure blue; falls deep white with blue pencilling.
- Victory.** Standard brown; falls deep violet, striped and bordered yellow at the base.

## LILY OF THE VALLEY

One of the most desirable spring flowering plants, producing in profusion its delicate bell-shaped, delightfully fragrant white flowers. Valleys thrive in any common soil, and will do well in shady situations where few other plants will succeed. Highly prized for cutting purposes. They are perfectly hardy and most charming planted in beds or borders around the lawn, where they can remain, increase and bloom from year to year. Ready from November to March.

Single Pip or Crown, each 5c; dz., 50c; clumps, best for outdoor planting, each 30c; dz. \$3.00

## PEONY

**Dutches de Nemours**  
Peony.



**PEONY (D)**—Double Herbaceous.—One of the most beautiful flowering plants, blooming in May and June. The new varieties are simply gorgeous. Once planted they increase in size and profusion of bloom. Most desirable and beautiful for hedges, groups or individual planting.

**Festiva Maxima**.—A beautiful pure white, sometimes tipped carmine on the center petals. Flower enormous in size, very full and double. Each 35c and 50c

**Couronne d'Or**.—Large bloom, creamy white, reflexed yellow. A most distinct and striking variety. Each 50c

**Duchess de Nemours**.—A superb ivory-white variety of our finest quality. Each 60c

**Edouard Andre**.—Immense globular bloom of a deep crimson red, with metallic reflex; very brilliant golden yellow stamens, forming a striking contrast. Each 50c

**Rubra Triumphans**.—Early. A satiny-finished, intensely rich crimson; very fragrant. Each 35c to 50c

**Peonia Tenuifolia fl. pl. (Fringed or Carrot Leaved)**.—Distinct; handsome divided foliage; flowers large, very double and of a deep blood-red; a dwarf, compact bloomer. Each 35c and 50c

**Special**.—One each of the above, very choice, only \$2.20, postpaid.

FOUR CHOICE COLORS.

**Special**.—One each of the following select kinds for only \$1.00, postpaid.

**Queen Victoria**.—Blush white; free flowering. Each 30c

**Officinalis Alba**.—One of the best early, pure white. Each 30c

**Officinalis Rubra**.—Bright scarlet crimson; very early, rare and fine. Each 30c

**Officinalis Rosea**.—Beautiful pink, very early and choice. Each 30c

**Peony Moutan**.—(Tree Peony).—See pg. 92.

## CANNAS

Such great improvements have been made in Cannas during the past few years that any one not posted would scarcely recognize them. They are now generally considered the most showy and effective bedding plants and are of the easiest culture, requiring only good garden soil. They have tropical appearing foliage and large, showy flowers, some of which are truly orchid-like.

Plant canna roots early in the spring; just as soon as the ground gets warm. Plants can be planted as late as June 15 with success.

When you buy our plants, you will be sure of success. Plant any time in May or early June, 18 inches apart in beds of the deepest, richest soil you can give them. (Nineteen plants required for a circular bed 7 feet across.)

## PRICES.

Strong roots or plants 20c each, \$2.00 dozen. Large potted plants, 15 to 18 inches high, 35c each, \$3.00 dozen. In case of shortage, we will substitute varieties of same color, unless otherwise instructed.

**King Humbert**.—Its mammoth flowers are produced in heavy trusses of gigantic size, and are of a brilliant orange scarlet, while the foliage is broad and massive and of a rich, coppery bronze; bold and effective; has no equal; 5 feet.

**Madam Crozy**.—Very showy and attractive; scarlet flowers, bordered with a band of pure yellow; green foliage; 3½ feet.

**Pennsylvania**.—Green foliage, intense vermilion scarlet, overlaid orange, 5 feet.

**Allemania**.—Green foliage, flowers large, orange-scarlet, golden markings, 5 feet.

**Wyoming**.—Bronze purple foliage, with immense spikes of orange flowers, 5 feet.

**Florence Vaughn**.—Green foliage. Flowers large and perfect form, bright rich golden yellow, spotted with red, 4 feet.



Canna Plant in Bloom.

Los Angeles, Cal., Feb. 26, 1914.  
Routledge Seed & Floral Co.  
Gentlemen: Tigridia bulbs arrived today.  
Thank you for courteous attention to a small order.

Yours truly,  
CHAS. E. BROWN.

If there is any information or advice that you wish, we will be glad to serve you to the best of our ability. Twenty years' practical experience on the coast enables us to serve you intelligently.

## BEAUTIFUL HARDY LILIES

These are the most fragrant, beautiful and stately of all flowers produced from bulbs; they require very little care. Do not disturb them oftener than every three to five years. Plant about six to twelve inches deep, according to size of bulb, and if the ground is not well drained use plenty of sand around the bulb, and lay it on its side. Plant in clusters or groups of six or more for best effect. The Formosa and Longiflorum Lilies force very easily. The Speciosum are, next to the Auratums, the most magnificent species for outdoor culture. They increase in size and beauty each year.

**LILIUM CANDIDUM.** This is the ever-popular, fragrant, snow-white, hardy garden Lily. The flowers are produced in clusters, at the top of 4 to 5-foot stems; blooms in the open ground in June. A very hardy and popular Lily.  
Each, 15c; doz., \$1.50; mammoth bulbs, 20c

**LILIUM L. FORMOSUM.** This new Lily from Japan has taken the place of L. HarriSSI on this coast. The best for early forcing. Bulbs arrive in September. Plant in the fall or early spring.  
Each, 15c; doz., \$1.50; mammoth bulbs, 20c

**TENUIFOLIUM.** The lovely Coral Lily of Siberia. A great beauty. The brightest of all lilies. Grows 20 inches high, with finely cut foliage, slender stems and beautiful shaded flowers of a very brilliant coral-red. Blooms very early with 12 to 20 flowers per stem.  
Each, 15c; doz., \$1.50

### Lilium Auratum (Gold Banded Lily)

The handsomest and probably the most popular of the Japan Lilies. Its immense ivory-white flowers are thickly studded with yellow and crimson spots, while in the center of each petal is a golden band, shading its edges into white; very fragrant.  
Each, 15c; doz., \$1.50; mammoth bulbs, 20c; doz., \$2.00.

**AURATUM PLATYPHYLLUM.**—One of the most wonderful Lilies in cultivation. The stems attain a height varying from 7 to 10 feet. The flowers are similar in color to Auratum, heavily spotted, but are much larger, the petals more overlapping, and of greatest substance. Each, 25c; doz., \$2.50

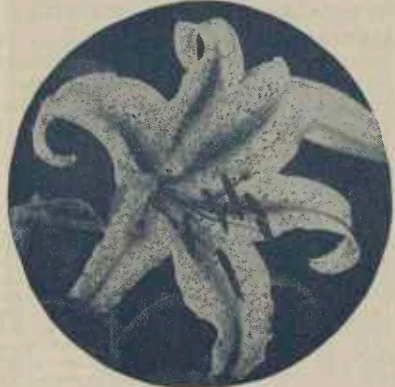
**AURATUM PICTUM.** A most magnificent flower of same shape and color as Auratum above except that one-half of the gold band on each petal is a bright crimson; very rare and showy.  
Each, 25c; doz., \$2.50

**AURATUM RUBRUM VITTATUM.** Very large flowers, often one foot across, pure ivory-white, with broad crimson stripe through center of each petal.  
Each, 40c; doz., \$4.00



Lilium Speciosum.

**WASHINGTONIANUM (Mt. Hood Lily).** A beautiful lily, native of Oregon; flower of open form; white, tinted with pink; grows 3 to 5 feet high; very fragrant. ,  
Each, 20c; doz. \$2.00; mammoth bulbs, 25c ea



Lilium Auratum.

### Lilium Speciosum

No words can overestimate the brilliant beauty of this charming variety. Its six broad white or pink petals are thickly dotted with rose or carmine spots, and the graceful form, brilliant color, and exquisite fragrance make this one of the most effective and desirable of the lily family. They are profuse bloomers, and last for many days after being cut and put in water.

**HENRYI (The Yellow Speciosum).** A splendid new rare Lily from the mountains of China. Destined to be the Lily among Lilies. It is so healthy and sturdy, so hardy and beautiful, so easy to grow, that in time it will be in every garden, as the Tiger Lily is now. It grows, when established, 3 to 5 feet high, each stem producing 5 to 8 large rich apricot yellow flowers, banded with green.  
Each, 50c; doz., \$5.00

**SPECIOSUM ALBUM.** Pure white; flowers freely.  
Each, 20c; doz., \$2.00; mammoth bulbs, 25c; doz., \$2.50  
**SPECIOSUM RUBRUM.** White, with dark rose spots.  
Each, 15c; doz., \$1.50; mammoth bulbs, 20c  
**SPECIOSUM MAGNIFICUM.** A new and rare variety; the finest of all the Speciosums; flowers very large, white, shaded rich blood crimson, heavily spotted; very rich and showy.  
Each, 20c; doz., \$2.00; mammoth bulbs, 25c; doz., \$2.50

### Tiger Lilies

**TIGRINUM FLORE PLENO (Double Tiger Lily).** A magnificent lily of stately habit, bearing immense clusters of large, double flowers; color bright orange, spotted with black.  
Each, 15c; doz., \$1.50; mammoth size, 20c; doz., \$2.00  
**TIGRINUM SPLENDENS (Improved Single Tiger Lily).** Large flowers of excellent form; color orange salmon, with dark spots; hardy and free bloomer.  
Each, 10c; doz., \$1.00; mammoth size, each, 15c; doz., \$1.50.

**NOTE.**—On display at our salesroom we have colored plates of all our lilies, which will give you an excellent idea of just the shape and colors.

## CALLA LILIES

The Calla is one of the best winter flowering plants for room culture, needing little care beyond abundant water and an occasional washing of the leaves to keep them free from dust. Take a 4 or 5-inch pot, fill it with good, rich loam ( $\frac{1}{4}$  leaf mould and  $\frac{3}{4}$  good garden soil), then put in bulb, cover it one inch, water well and set away in a dark place for three or four weeks. As soon as it starts growing bring to the light, give abundance of water, light and heat and the result will be most satisfactory. Too often people wait till spring to plant the Calla tubers; then they have lost much of their vitality. After blooming set the pots away and let them dry out until the following September.

**WHITE CALLA (LILY OF THE NILE).** Each... 15c to 25c

**ELLIOTIANA.** This is the great new Yellow Calla of marvelous beauty. Flowers are large, rich, dark golden yellow, often 4 to 5 inches across the mouth; leaves are beautifully spotted with white. A most valuable bulb for fall planting inside. Bulbs in stock from September to April.

Each, 30c



Calla Lily (in full flower).

## MONTBRETIA.

The Montbretia is one of the most floriferous and showy of summer-flowering bulbous plants. A dozen or more bulbs planted 6 inches apart in a group in a sunny position and allowed to remain will form magnificent clumps, producing, in great numbers, in July and August, graceful sprays of from 18 to 30 exceedingly showy star-shaped flowers,  $1\frac{1}{2}$  to 2 inches across. They flower freely the first season, but clumps of 2 or 3 years' standing are required to bring out their great merits. **Montbretia Mixed Hybrids.** Price 3 for 10c; doz., 40c

## BEGONIAS.

(Tuberous Rooted)

Excellent for pot culture or planting in lawn beds and borders. They should be grown more extensively than they now are, for they require very little attention and are in flower, out side, from early summer until heavy frosts; inside, potted, they are a constant and prolific bloomer. They will thrive either in full sunshine or partial shade, but when fully exposed to the sun the beds must be kept moist.

**Culture.**—Before planting keep the bulbs in a moist, warm place to start them, so that you can tell which is the top. Plant a foot apart in beds or 1 bulb to a 4 or 5-in. pot inside, cover about 1 inch.

**SINGLE FLOWERED,** White, Red, Yellow or Orange. 15c each; \$1.50 doz.

**MIXED**—10c each; 35c doz.

**DOUBLE FLOWERED.**—Separate colors as above. 20c each; \$2.00 doz.

**MIXED**—15c each; \$1.50 doz.

## TIGRIDIAS.

(Tiger, or Shell Flower.)

These are gorgeous, rare and unique summer-flowering bulbs that look well associated with Gladioli, Lilies and kindred stock; grow about  $1\frac{1}{2}$  feet high, and flower freely throughout the summer. They require the same treatment as Gladioli, and should be lifted in autumn and dried off in the same way. (See cut of flower only.) They come in all colors of Yellow, Crimson,

White, Rose and Spotted.

**Mixed,** all colors, each 5c; dozen 50c, per 100, \$2.50.

## CALADIUM ESCULENTUM.

(Elephant's Ear.)

One of the most effective plants in cultivation for beds, borders or for planting out upon the lawn. To obtain the best results it should be planted where it will obtain plenty of water and an abundance of rich compost. When full size it stands 6 to 10 feet high, and bears immense light green leaves, 3 to 4 feet long by  $2\frac{1}{2}$  feet wide. Mammoth bulbs, each 25c.

## AMARYLLIS.

These hardy lily-like flowering bulbs are very popular for pot culture and easily grown by everyone, the chief point being to give the bulbs alternate periods of rest and growth. When the leaves appear give water and plenty of light; after flowers are off and leaves have started to turn yellow withhold water and put away from light. Do not start growth again until bulb shows signs of life itself, which it will do (even when soil is perfectly dry) by pushing out new leaves.

**BELLADONNA MAJOR.**—Fine variety, free flowering and fragrant. Delicate, yet large light pink flowers. **Large bulbs, each 25c**

**JOHNSONI.**—Immense trumpet shaped flowers, rich velvety crimson with a white strip on center of each petal. **Each 35c**

**FORMOSISSIMA.**—Very popular, flowers dark scarlet, strangely marked. Excellent for pots or garden. **Each 20c**

## TUBEROSES.

One of the best-known and most easily grown summer flowering bulbs. Easily recognized by its exquisite fragrance and beautiful spikes of white flowers, which are borne on long stems, making it an admirable cut-flower for house decoration. If started in pots and then transplanted to open ground can be had much earlier. For flowering in the open border plant in April or May, or as soon as the ground becomes warm.

The "Excelsior" strain of Dwarf Pearl Tuberoses is greatly improved in habit of growth, extreme doubleness of the large flowers, and in very early flowering. The stems being more dwarf and stiffly erect, they do not need to be staked and tied as do the tall sorts. We offer select, large-flowering bulbs.

Each, 5c; doz., 50c; per 100, \$3.00

## ROUTLEDGE'S SUPERB GLADIOLI BULBS

Plant more Gladioli. The wonderful, beautiful and large-flowered varieties of today are not to be compared to the small, insignificant varieties of a few years ago. Gladioli bulbs are good from year to year, and multiply quite rapidly, therefore are really not expensive. Excellent for planting among the rose bushes, as they bloom when roses are scarce. Try it this year.

**AMERICA.**—The best and most popular pink. A grand large spike and flower.

Each, 5c; doz., 50c; 100, \$3.00

**AUGUSTA.**—Pure white, blue anthers; a lovely and desirable variety.

Each, 5c; doz., 50c; 100, \$3.00

**ATTRACTION.**—Large, deep, rich crimson with a pure white blotch on lower petals, very attractive.

Each, 7c; doz., 75c; 100, \$6.00

**BARON J. HULOT.**—The finest blue Gladiolus yet seen, rich and rare, tall and slender.

Each, 8c; doz., \$1.00; 100, \$6.50

**BRENCHLEYENSIS.**—Vermillion-scarlet; bright and very showy, a great favorite.

Each, 5c; doz., 50c; 100, \$3.00

**GLORY.**—New; each petal is exquisitely ruffled and fluted at the edges. Delicate cream pink, with a neat, attractive crimson stripe in the center of each lower petal, flowers large.

Each, 15c; doz., \$1.50; 100, \$10.00

**HALLEY.**—New; quite early, color delicate salmon pink, healthy and vigorous, truly magnificent.

Each, 10c; doz., \$1.00; 100, \$7.50

**KLONDYKE.**—Soft light yellow, with crimson maroon blotch on each petal; very attractive.

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

**MRS. FRANCIS KING.**—One of the largest and most showy varieties. Of great merit. Color is a brilliant scarlet, which attracts attention at once. Be sure and plant liberally of this kind.

Each, 6c; doz., 60c; 100, \$3.50

**NIAGARA.**—New. Of grand form and habit; color cream shading to yellow, throat and lower petals blushed with carmine. The individual flowers are very large.

Each, 25c; doz., \$2.50

**PRINCEPS.**—The dazzling scarlet florets are immense in size and beauty. The slight markings of white on the lower petal sets it off to great advantage.

Each, 10c; doz., \$1.00; 100, \$7.50

**WILD ROSE.**—A very beautiful flower, distinct, delicate and pretty. A bright rose or blush tint.

Each, 15c; doz., \$1.50

Warren, Ore., Sept. 19, 1914.

Routledge Seed & Floral Co.

Gentlemen: Thank you for being so prompt in filling order for seeds, etc., also for the flower bulbs. You will receive many orders from us in the Spring.

Yours truly,

S. WELLBORN.



### Our Grand Mixed Gladioli

Our mixed Gladioli are very fine indeed, being choice varieties only. All old and common ones have been discarded, and customers can depend upon having a large and magnificent variety of colors.

#### MIXTURES UNDER SEPARATE COLORS

These are very choice and absolutely true to color and contain many fine named varieties.

|                                | Doz.   | 100    |
|--------------------------------|--------|--------|
| White and Light varieties..... | \$0.60 | \$4.00 |
| Scarlet and Red .....          | .50    | 3.50   |
| Pink and Rose shades .....     | .60    | 4.00   |
| Yellow and Orange .....        | .75    | 5.00   |
| Striped and Variegated .....   | .65    | 4.50   |

**CHOICEST MIXED.**—A mixture of named varieties and all sorts, giving in one bed the greatest range of colors and variations. A large per cent of Childs. Great value.

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

**POPULAR MIXTURE.**—This mixture will produce a large variety of flowers at a little expense; unequaled for the price.

Doz., 50c; 100, \$3.00

Sandy, Ore., Oct. 29, 1914.

Routledge Seed & Floral Co.

Gentlemen: I got some seed and bulbs from you last year and was very well satisfied. That prize collection of the Sweet Peas was very nice, also the Shell Flower.

I would like to have a few more.

Yours truly,

MARY KREBS.

Don't compare our prices with the cheap mail order houses that send out little bulbs that will not flower the first year. Our bulbs are first size and all will flower nicely.

# ROUTLEDGE SEED AND FLORAL CO'S NEW AND POPULAR DAHLIAS



GEISHA

We are the largest growers of new and **UP-TO-DATE** Dahlias in the Northwest. We do not pretend to have the longest list of old and out of date varieties.

No doubt many of our customers will remember the beautiful displays of cut flowers we made at the Dahlia Show and our growing exhibits at the State Fair.

Each year we test out, in our dahlia fields where we have daily and ample opportunity for comparison, a hundred or more new and late introductions along with the standard varieties. After paying careful attention to the length and strength of flower stem, the growth of plant, perfection, color and profusion of bloom, we make our selection for growing the following year. We never discard a standard variety until we find a better one, all points considered. Therefore, you are assured of the **very best if you select** and buy from us. We do not grow seedlings and name them as others do.

## HOLLAND PEONY DAHLIAS

These produce long-stemmed, large, handsome, single and semi-double, showy flowers, many of which are of the most odd and fantastic shapes (see cut above). Peony dahlias are most profuse bloomers and for a single or mass planting to get the most brilliant show of flowers they are unsurpassed by any flower.

### Latest and Best Peony Dahlias

**Special.**—Our full collection of 17 varieties (value \$10.20), only \$7.50, or you can make your own collection to the value of \$1.20 for \$1.00, \$2.40 for \$2.00, etc.; in other words, 20c extra on the dollar, collection prices excepted and on **CASH ORDERS** only.

#### PURE WHITE

**AVALANCHE**—(1914)—Pure white, the latest introduction and claimed to be the best white in this class in form, style, stem and color; award of merit.

Each \$1.25 (plants only)

**HORTULANUS WITTE**—(1912)—A wonderful giant white of great beauty, the broad, graceful petals are of good substance and of a glistening pearly, white with fine large stems. First-class certificate.

Each 65c

**GIANT EDELWEISS**.—Pure white, petals extra long and pointed, profuse bloomer and very popular, although it has weak flower stems.

Each 25c

#### WHITE, SHADED

**DR. K. W. VAN GORKOM**.—Magnificent large blooms, white, softly shaded rose.

Each 35c

**H. J. LOVINK**.—A grand large flower, white shaded lilac. Excellent.

Each 35c

#### CREAM AND YELLOW

**LEO XIII**—(1914)—The latest, most remarkable free flowering, fine formed, deep pure yellow to date. Most desirable in every way. Flowers quite double. Award of merit and first-class certificate.

Each \$1.00

**CAESAR (F. C. C. 1911)**.—A large semi-double flat petaled flower, produced freely on long stiff stems. Very desirable.

Each 35c

#### PINK AND ROSE

**AMERICA**—(1913).—A glowing old rose overlaid with a rich shade of old gold. A shapely, full flower of 7 to 9 inches in diameter, with broad, gracefully twisted petals; flowers erect on long, strong stems. A magnificent and distinctive flower well worthy of the name "AMERICA." First-class certificate Amsterdam, and Harlem.

Each \$1.00

**QUEEN EMMA**.—A graceful, flat petaled flower, of rosy pink, showing shade of yellow to the center; long stiff stems. Bright and desirable. The best pink in the class.

Each 25c

#### RED

**DUCHESS OF BRUNSWICK**—(1914).—Flowers bright red, showing some orange or apricot. Given a first-class certificate Amsterdam and Harlem; also by National Dahlia Society, and award of merit London. Will no doubt prove very popular here.

Each \$1.00

**GERMANIA**.—Large, full flowers, bright glowing crimson, the best in this color. Fine for cutting.

Each 25c

**HORTULANUS BUDDE**—(1912).—Opens a clear, bright crimson changing to lovely rich old rose, shading to delicate fawn at tips and margins of the broad, velvety petals. A grand, giant flower, well poised on long strong stems. Special award of merit.

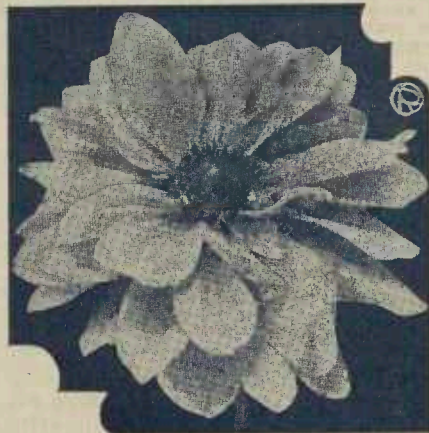
Each 60c

**Dahlia Plants.**—Dahlia plants bloom the first season and many growers claim they produce more and better flowers than bulbs, but require more careful handling.

## New and Up-to-Date Peony Dahlias

### ORANGE AND SALMON

**BERTHA VON SUTTNER.**—Color beautiful salmon-pink, shaded yellow; the flowers very large and full to the center; of elegant form and carried erect on strong stems; much admired. **Each 50c**



Caesar—Peony Dahlia (Flat Petal Type.)

**GEISHA**—(1909.—See cut, page 66.)—Not new, but of great merit and very popular. Large, fantastic and beautiful flower that pleases everyone. The most popular and showy peony dahlia to date. The color of Geisha is unique, being a rich, bright golden yellow, suffused with clear bright red, shading toward points of petals into the clear yellow; a beautiful deep golden center adds to the harmony of the color scheme which is the most striking and brilliant ever seen in a Dahlia. The immense flowers often attain a width of 10 to 12 inches, and the massive petals, more than in any other peony type, are twisted and curled in the most fantastic manner. (See cut.) **Each 50c**

**P. W. JANSSEN.**—Old rose and salmon-bronze, with dash of yellow to the center. Excellent stems and flowers. Excellent free bloomer. **Each 25c**

### LAVENDER

**GREAT BRITAIN**—(1913).—Flowers quite double, beautiful, clear mauve color and mammoth in size. A grand addition to this class; bush rather dwarf and compact; late bloomer. **Each \$1.00**

**ZEPPELIN**—(1912).—A beautiful, true, new lavender. Given Award of Merit Amsterdam, Holland. Offered in America for first time by us. Large, well formed, open flowers, gracefully poised on long, strong stems. Excellent for cutting and decorations. **Each 65c**

1915

## National Dahlia Show.

The Second Annual Dahlia Show of the National Dahlia Society will be held at Portland, Oregon, during the month of September, 1915.

**PREPARE NOW TO MAKE AN EXHIBIT.**  
Full information and Premium List on request.

## New Single Flowered Dahlias

This class of dahlias has become quite popular of late, they are showy in the garden, very free flowering and excellent for cutting and general decorating. We offer only new, improved and really desirable varieties. (See cut.)



Single Dahlias.

**Prices.**—Your selection (except where noted), each 25c. Full collection (8 kinds), \$1.75 postpaid.

**ALLEGRO.**—Distinct; sulphur yellow and aurora, striped maroon.

**FARANDOLE.**—Velvety cerise red, yellow center; freely produced on long stems, compact bush.

**FRAU DE NEBELTHAU.**—The best pure white, excellent stems, large flower.

**FREGOLI.**—New, giant single flower on long strong stems. Carmine with a large spot of pure white on each broad, flat petal; very showy and distinct. **Each 35c**

**MELINA.**—Extra large flowers on long stems. A beautiful pale pink.

**PEGASE.**—Vermillion orange, shaded golden orange. Very desirable.

**TROUBADOUR.**—Bronze copper and blood-red. Very effective. Medium size.

**ROTGOLD.**—New, bright red, centered with a broad, yellow zone which contrasts very nicely. Giant, single flowers well poised on strong, long stems. **Each 50c**

**DAHLIA CULTURE.**—When you get your bulbs, put them in a warm, moist place so as to start an eye or sprout. Some varieties sprout quicker and earlier than others, but do not plant until they start, then you will have no vacant places. Lay the bulb on its side and cover four inches and 30 to 40 inches apart.



## 1914 Collection New Cactus Dahlias

These are French and German introductions of great merit. We have seen the flowers and know each one is a beauty. Special Cash Offer.—The 10 varieties (value \$6.95) only \$5.00 postpaid.

**ALFRED NOMBLOT.**—Extra large flowers with incurving petals, Geranium red; under side of petals plum, with a golden sheen at base of petals. A beautiful combination and very desirable. Each 60c

**COMTESSE R. DE BEAUCHAMP.**—A grand large flower full to the center, incurving petals. Old gold, or a copper shade, with a golden sheen in the center. Very rich and desirable. Each 75c

**DUCHESS DE CHARTRES.**—An incurved long petaled exhibition variety. The color combination of sulphur-yellow and mauve produce a beautiful pink. Each 75c

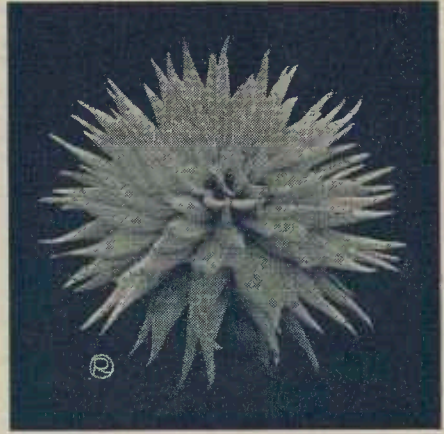
**FERDINAND CAYEUX.**—The darkest dahlia to date, deep velvety maroon, long pointed petals, extra good stems. Each 60c

**F. HONORE.**—New French variety, center yellow, passing to blush white at tips, streaked and sprinkled rosy-carmine. A large, beautiful incurved flower. Each 50c

**JEANNE HARDY.**—Of great merit, extra large handsome flowers, petals rolled, pointed and incurving in the most pleasing style. An exhibition variety of great substance. Pure carmine red, lightly tipped white. Each 75c

**JACQUELINE GUILLOT.**—A beautiful and attractive flower of good size, long stems; blood red, capped or tipped pure white, the best of this type. Each 50c

**KALIF.**—A truly majestic flower, frequently measuring 8 to 9 inches in diameter, of perfect Cactus form, in color a pure scarlet. The habit of the plant is all that can be desired, growing, with us, about 4½ feet high; the gigantic flowers, which are produced very freely, are held erect on strong, stiff stems, making it a most effective and useful variety for cutting as well as for garden decoration. Kalif is of German origin, and is the first variety that has had the distinction of receiving the National German Dahlia Society's highest award—a silver medal. Each \$1.00



Mrs. Douglass Fleming.

**MRS. DOUG. FLEMING.**—The flower that has been wanting for years and without doubt the best white cactus dahlia. Although composed of very narrow florets, they are so numerous as to make massive flowers. Blooms are always perfect and yet it is extremely free and constant. One of the best keepers when cut. Each 75c

**NEW YORK.**—Rosy salmon-orange color, with bronzy shadings. One of the largest, held erect on long, strong stems; perfectly free bloomer. Awarded the National Dahlia Society's first-class certificate at the Crystal Palace Show, in London. Each 75c

**SPECIAL CASH OFFER.**—In collections (of 3 or more bulbs) we will give you \$2.40 worth for \$2.00; \$3.60 for \$3.00, etc. (20c extra on the dollar) collection and dozen, prices excepted.

## Superb Collection New Cactus Dahlias

Price 40c Each. Full Collection (12 kinds), \$3.50.

**EXTASE.**—Beautiful rosy pink, lighter to the center. A grand flower in every way and very large.

**INDIANERIN.**—Carmine scarlet, dark center, a rare rich color. Flowers rather flat, of good shape, with long pointed, twisted petals, long stems, a free bloomer.

**MAD. HENRYI CAYEAUX.**—A new variety of premier merit, elegant form. A beautiful, tender rose. Petals long, white tips.

**MAD. PAUL BULTOT.**—A beautiful shade and combination of aurora and salmon. Extra fine form. Petals incurving and twisted.

**MAD. LOUIS HOT.**—Light carmine red shading to heliotrope. Flowers large and full, petals long, pointed and incurving. Good stems. A grand variety.

**MANON.**—Extra large flowers, sulphur yellow shading to primrose at points of petals. A free bloomer and very desirable.

**MARY FRISSARD.**—A very striking flower, distinct and of fine form. Rose, striped and mottled carmine, yellow center.

**MEPHISTO.**—Very fine showy flowers. Shining fiery red, borne on long, stiff stems, petals curved and flowers full.

**MERCURY.**—Beautiful large full flowers. Petals fine and pointed, incurving. Coral red, deeper to the center.

**PHANOMEN.**—A noble variety, very beautiful bronze yellow, overlaid light rose, long stems, much admired at the German shows.

**SUZANNE CAYEUX.**—White exhibition variety, the largest and best to date. Flowers very large, beautiful and graceful; incurving.

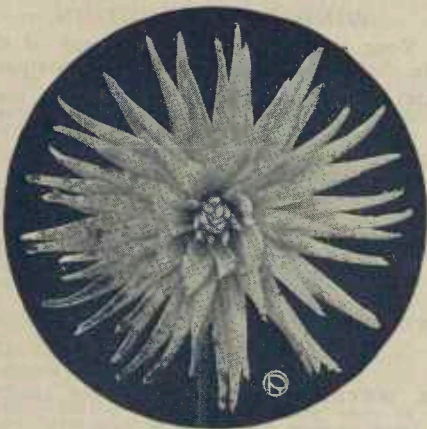
**VILLA DE LYON.**—A magnificent large flower of superb texture and strength. Petals straight and pointed, rich rose, center almost pure white.

**ABOUT DAHLIA BULBS.**—A small bulb will produce as large and strong a plant as a large bulb and a single bulb with a single eye or sprout is better than a "clump."

## Cactus Dahlias of Real Merit.

In addition to the novelties offered on the preceding pages, the following are all very choice, there is not a poor variety in the whole list. We classify under color for your convenience.

**Prices.**—All varieties on this page, except where noted, 25c each. Collections of 10 or more at 20c each.



### WHITE

**GUNTHER.**—A splendid pure white dahlia with broad, twisted petals of the purest white. **Each 35c**

**MADMOISELLE CAZALIS.**—Pure white, with long flat pointed petals. Flower perfect in form, large and very full.

**MONSIEUR ROGER LECLERC.**—Flowers large, petals incurving; stems strong. A charming primrose shading to pure white.

### PINK SHADES

**COUNTESS OF MALMSBURY.**—Dainty peach rose, petals pointed and twisted, free flowering, very showy and exquisite.

**GONDOLA.**—A clear rosy pink, large flowers, with long, narrow, peculiarly twisted petals.

**IEWISE.**—Beautiful rosy peach, a shade very much sought. Free bloomer. **Each 40c**

**MANDELBLUTE.**—Beautiful in shape and color, a rich deep pink, free blooming.

**MAD. H. DENAVIS.**—Very beautiful, a combination of rose, mauve and white.

**REV. T. W. JAMISON.**—Very large, long incurving petals of a bright mauve-pink, illuminated with salmon at base. **Each 40c**

### YELLOW SHADES

**GOLDREGEN.**—Pure yellow; large, handsome flowers. An ideal yellow.

**NANKIN.**—A wonderful long stemmed variety. Flowers of a chamois color or the shade of raw silk. A splendid color by day and artificial light.

**SEQUOLA.**—Deep saffron-yellow, with long tubular petals cleft at the tops.

### ORANGE SHADES

**COUNTESS OF LONSDALE.**—For perfection of bloom, size of stem and abundance of flowers, although quite old, this variety has never been excelled. The color is a rich salmon, tinted apricot.

**IVERNIA.**—Flowers of largest size with long, narrow incurving petals; color salmon pink or orange. **Each 40c**

**WM. MARSHALL.**—Flowers extra large, fine form, long twisted petals. Color yellow overlaid and shaded orange.

### RED SHADES

**CARDINAL KING.**—A brilliant, rich cardinal red; the flowers of perfect form and exceptionally large; a grand exhibition variety. **Each 40c**

**CHANTECLEER.**—A very large, handsome, full flower of excellent form and type. Color, rosy red, shaded orange, petals long and narrow.

**CONSTANTIN.**—A beautiful large flower with curving, twisting petals. A most pleasing rich, rosy red; free blooming.

**MADAME CHAMPIN.**—A deep rich red of most desirable form and type. Good stem, profuse bloomer. Exhibition flower. **Each 35c**

**MRS FERDINAND JEFFRIES.**—Long petals curved and twisted, giving the flower a shaggy appearance. Deep velvety red.

**MRS. HENRY WIRTH.**—This splendid variety is in full bloom from early until late, full double flowers of intense rich glowing scarlet, on good stems, excellent.

**NELSON.**—Distinct flowers; large and very freely produced on long stems; petals extra long, very narrow and curling in a most elegant manner, color rich crimson, shading to magenta. **Each 50c**

**RENE CAYEUX.**—An early, continuous and free bloomer. Flowers borne well above the foliage. For a hedge or a mass effect it could not be equaled. A rich, bright red. Bushes 3½ feet high.

**STAGHORN.**—Bright carmine, the petals being furcated on the end; odd and fantastic.

**UNCLE TOM.**—Free bloomer; deep crimson, almost black.

### LAVENDER, VIOLET SHADES

**CHARLES PARNOT.**—Lilac rose, striped carmine, very distinct. Elegant. **Each 40c**

**MAD. EUGENE REMY.**—Rosy lilac overlaid maroon, very rich and a free bloomer. Petals long, of fine form and incurving.

**MONSIEUR CAZALIS.**—White, overlaid with violet rose, producing a lavender shade. Very desirable.

**PANORAMA.**—Well shaped flowers on long stems, rosy lilac in color.

**VIOLA.**—A full well shaped flower, very rich and desirable. Violet purple.

### DISTINCT OR SHADED VARIETIES

**DUCHESS DE LA ROCHEFOUCAULD.**—A graceful flower, fine pointed petals, creamy white with fine stripes of carmine.

**FLEURISTE BIET.**—Very distinct and charming; points of petals cut. Color white shaded and edged rosy carmine.

**MODELL.**—A beautiful clear yellow, with a delicate plum blush sheen over tips of petals; a dainty, lovely flower of large size, perfect form, petals incurving, erect on long stems. **Each 35c**

**MONSIEUR BARAT.**—A large and beautiful flower; color, white, striped and lined purple and violet, making it very showy.

**MRS. J. EMBEESON.**—A distinct fancy, large, incurving flowers of a pale-lemon, striped with rosy pink. **Each 40c**

We discarded five years ago many varieties still found in catalogs and price lists of many growers claiming to be “Dahlia Specialists.” Order from us and be up-to-date. Our prices are very low.

## New French Collerette Dahlias.

An entirely distinct type, having a row of artistic petals around the disc, which form a frill or collar and which is of a different color from the rest of the flower. We recommend more extensive planting of this type, as they are excellent for cutting, have good stems, last well in water and the fall rains do not discolor them. (See cut.)



French Collerette.

### Show Dahlias—Quilled.

Very beautiful and desirable. Excellent for cutting. Stand handling and shipping well. In shape they are rather round or ball-shaped, and the petals are quilled (see illustration below.)

**IMPERATOR.**—1914 Novelty from Holland—Strong grower, mammoth flowers on long stems; color, soft ivory white, outer edges of petals suffused lilac rose which gives the flower a peculiar splendor. A robust grower, therefore disbud and trim off some side shoots to secure mammoth flowers on long stems. Excellent for cutting; lasting well in water. Each \$1.00

### GRAND DUCHESS COLLECTION

Your choice, 30c each, full collection (5 kinds) \$1.25 postpaid.

**BALZAC.**—Extra large perfect flowers, dark velvety maroon, very rich. The superb flowers are borne on long, strong stems.

**DREER'S WHITE.**—A pure, glistening white, resembling in form the popular Grand Duke Alexis. Free flowering and most valuable for cutting and show.

**GRAND DUCHESS MARIE.**—Extra large flowers, same style as Le Siam, but of a pleasing orange buff and light salmon. A free bloomer and much admired.

**LE SIAM.**—A grand flower, same style and shape as the ever popular Grand Duke Alexis, but of a rich, silvery rose. Free bloomers and good stems, very desirable.

### Grand Duke Collection Show Dahlias.

Price, your choice 25c each, 6 or more at 20c each.

**CALEB POWERS.**—Early, free bloomer. Good size, soft pink, splendid form.

**DIADEM.**—Very large, of fine form on long stems; a beautiful rich crimson.

**EMILY.**—Solferino, with white markings. Very large and a free bloomer.

**FASCINATION.**—Rosy pink, free flowering.

**GLORIE DE LYON.**—Very large, pure white; this really is one of the finest white we have seen.

**GRAND DUKE ALEXIS.**—A grand, large flower and always scarce on the market on account of the large demand. Color, ivory white, lightly tinged rosy lavender on edge of petals.

### WINDSOR COLLECTION.

Your choice, 25c each, one each of the six distinct varieties, only \$1.25 postpaid.

**AMI NONIN.**—Amarante shaded lilac rose; collerette white, tinted orange and rose; unique.

**IDEAL.**—Cardinal red, collerette yellow, very attractive.

**M. MARTINET.**—Very large, vermilion shaded yellow at edges of large petals; collerette yellow.

**PRINCESS LOUISE.**—Rich glowing, crimson flowers with broad flat petals and white collerette, very distinct, free flowering, and very fine.

**WINDSOR.**—Pale chrome yellow flowers suffused with rosy pink, and straw colored collerette; a flower of grand form produced freely on long, erect stems.

**M. MEYDE MONT.**—Velvety red shading to rosy pink on edges of petals, collerette creamy white, large, beautiful flowers on long stems.



W. W. Rawson

**W. W. RAWSON.**—(See Cut.)—The massive, perfect but graceful flowers are borne on long, stiff, erect stems. The color is pure white, overlaid with amethyst-blue, producing a delicate lavender.

**HENRY CLARK.**—Pure lilac, edged and pencilled with a deeper shade.

**JASPER.**—Dark ruby color of a very distinct shade. New variety from Scotland.

**LUCY FAWCETT.**—Sulphur-yellow, flaked crimson. Fine large flowers, very full.

**NORMA.**—Bright orange; one of the best grown; extra fine shape.

**THOMAS PENDRED.**—Without doubt the finest yellow show dahlia ever offered.

**W. P. LAIRD.**—Lilac, veined darker; very fine form.

**WM. PEMBERTON.**—Deep orange yellow, splashed with bright scarlet, very good.

## Decorative Dahlias.

The decorative Dahlias are an intermediate form between the Show and Cactus types. Many beautiful varieties have been introduced, some with flat petals, others reflexed, incurved or curiously twisted, but nearly all are without formality or stiffness, and practically all of them are leaders as cut flowers, bearing their large, perfectly formed blooms on long, stiff stems, and standing in good condition longer than most kinds; furthermore, they are of easy culture, and seem to adapt themselves to and succeed under the most varied conditions; a combination which assures their continued popularity.

### PRINCESS COLLECTION

Six extra choice decorative dahlias.

Special—One of each (6 kinds), value \$2.25, postpaid, only \$1.75.

**DELICE.**—A beautiful glowing rose-pink. Perfect shaped flowers on stiff stems, well above the foliage. When cut it retains its freshness for a long time (see cut).

Each 25c

**HORTULANUS FIET.**—New. Of mammoth size. A rich and pleasing apricot shading to old gold in center. Beautiful flowers on good stems. Given first-class certificate at Amsterdam and Award of Merit at Haarlem.

Each 50c

**HALLEBARDE.**—Extra large fine flowers, a very attractive and pleasing combination of yellow and orange.

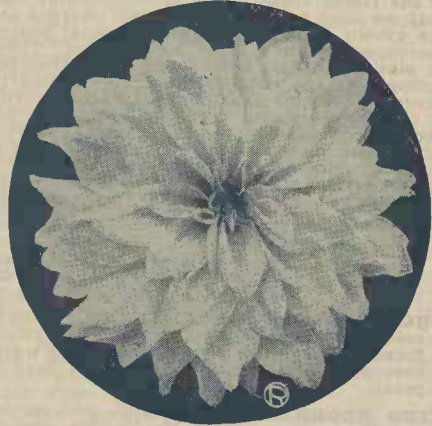
Each 40c

**MONSIEUR CAPRON.**—Handsomeness, large flowers, amarante crimson, each petal delicately edged pure white. A distinctive and most desirable color.

Each 35c

**ME. JEANNE CHANTRE.**—A grand new flower, rich pink or bright rose, shading to a creamy white. Grand, showy and pleasing flowers on strong stems. Of special merit. Given first-class certificate, Lyons, France.

Each 40c



Princess Julianne.

**PRINCESS JULIANNE** (See Cut).—Award of Merit, Amsterdam; Award of Merit, R. H. S. London. Flower large, full, pure white, perfect shape, stands erect on long, stiff stems and lasts for days.

Each 35c

### GAIETY COLLECTION DECORATIVE DAHLIAS.

A very choice and desirable collection. Your choice 25c each; 6 or more at 20c each postpaid.

**GAIETY.**—A superb new vivid scarlet, beautifully tipped with pure white. It is a variety far above the average.

**LE GRAND MANITO.**—A most effective fancy variety of splendid shape and very large, ground color white, well shaded, striped and blotched with deep reddish violet. Flowers borne on stout, stiff stems, well above the foliage.

**MAD. L. GUILLOT.**—Bright carmine red, mammoth flowers, very showy.

**MANITOU.**—Immense size. The color is pleasing and attractive, being a pure, rich yellow suffused deep pink or rose.

**MEADOW GOLD.**—Flowers large and produced in great profusion from early to late. Primrose yellow, tinged delicate pink.

**MISS MINNIE McCULLOUGH.**—One of the most popular varieties. Color soft yellow, overlaid with bronze; a beautiful autumnal tint.

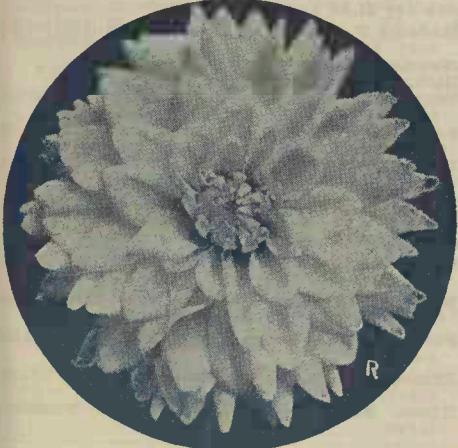
**PERLE DE LYON.**—Not only the most valuable white decorative Dahlia, but the best white of any class for cut-flower purposes; its flowers are of good size and held erect on long, stiff, wiry stems, superior to Mrs. Winters.

**REISE VON STUTTGART.**—Sport from Souvenir de Gustave Doazon, which it resembles in size and general form. A bright blood-red, shading deeper to the center.

**REVE D'OR.**—Magnificent new color, flaming red, yellow and copper, a superb semi-double flower, profuse bloomer and much admired.

**SOUVENIR DE GUSTAVE DOAZON.**—The immense flowers are borne in profusion; color bright red.

**SPOTLESS QUEEN.**—Pure white without any tinge of color, very free flowering, and of good habit.



Delice (Fine for Cutting.)

Note.—Plant Dahlias from March to July. Bulb ready after February 1st. Dahlia plants after April 1st. We will replace free any bulb not true to name.

## CHOICE ROSE PLANTS

FOR SPRING AND SUMMER PLANTING AND  
NOT FOR FALL DELIVERY.

On this page we are offering four choice collections of the finest roses. This is the popular mail order size that we send by mail or express, charges prepaid. They are grown in small pots, are strong, healthy and well rooted, and from 8 to 12 inches high. They should not be planted outside before severe weather is over in the spring, but you can order early and keep the plants in boxes or pots in a sheltered location until the ground is ready. By doing this you will have them on hand just when wanted, and your plants will be growing larger and harder. While this size will not produce so many blooms the first season as our large field-grown plants offered on the following pages, you will be surprised at the results you can obtain, and at quite a saving in price.



Sunburst

### 1915 Novelty Collection of New Roses.

Price, 25c each; set of six sorts, \$1.25 postpaid.

**DUCHESS OF SUTHERLAND.**—Growth erect and vigorous with large, full finely formed flowers on stout canes; color warm rose pink with lemon shadings on base of petals.

**KING GEORGE.**—Growth strong and of free branching habit; flowers very large and full, opening freely. Color deep crimson maroon with a velvety violet flush.

**NERISSA.**—Creamy yellow shaded to white, center tinted peach. Very large, full and free.

**OPHELIA.**—Salmon, flesh, shaded rose, base of petals apricot yellow. Fine shaped flowers. Excellent habit.

**SUNBURST.**—Without doubt the finest yellow rose in existence. Grand free growth and large buds and flowers of an orange-copper color shaded golden yellow. Superb.

**WILLOMERE.**—This splendid new rose may be described as an improved Lyon, which it much resembles. Buds coral red, suffused with carmine opening into a large, full flower of a rich shrimp pink shaded to yellow in the center.

### Prize Collection Grand, New, Everblooming Roses.

Price, 20c each; set of six sorts, \$1.00 postpaid.

**BRITISH QUEEN.**—A grand new Gold Medal rose from Ireland which we are sure is of the highest order of merit.

**COUNTESS OF SHAFTSBURY.**—Very large, perfectly formed buds and flowers. Color silvery carmine mottled and flushed pale shell pink at edge.

**EDWARD MAWLEY.**—Comes finely recommended from England. Intense scarlet shaded crimson.

**MRS. POLEY HOBBS.**—A grand new tea rose of strong growth. Ivory white tinged with pink.

**LADY HILLINGDON.**—Long, pointed buds of a rich orange-yellow color, borne on long, graceful stems.

**LADY ALICE STANLEY.**—Beautiful long pointed buds; coral rose, shaded lighter on inside of petals.

### Beauty Collection Choice Roses.

Price, 15c each; set of twelve for \$1.25 postpaid.

**Dean Hole.**—Silvery carmine shaded peach.

**Killarney.**—Silvery pink, fine buds.

**Kaiserine Augusta Victoria.**—Best creamy white.

**Mad. Abel Chatenay.**—Glowing dark pink; very free.

**Madam Caroline Testout.**—Our most popular pink.

**Madame Leon Pain.**—Silvery flesh, shaded yellow.

**Madame P. Euler.**—Brilliant vermilion pink; very fine.

**Maman Cochet.**—Beautiful rosy pink.

**Richmond.**—Crimson scarlet buds.

**Souv. de P. Notting.**—Rich yellow, bordered pink.

**Souv. de President Carnot.**—Shell pink and fawn.

**White Maman Cochet.**—Pure white; elegant buds.

### Popular Collection Hardy Roses.

Price, 15c each; set of twelve for \$1.25 postpaid.

**Anna de Diesbach.**—Beautiful, clear carmine pink.

**Baron de Bonstettin.**—Dark, rich red; very large.

**Captain Hayward.**—Rich glowing red, very large.

**Clio.**—Massive, light pink flowers.

**Conrad F. Meyer.**—Beautiful silvery pink.

**Coquette des Blancches.**—Pure white, hardy.

**General Jacqueminot.**—Bright crimson; one of the best.

**Gloria Lyonnaise.**—Chamois yellow; full, sweet, distinct.

**Mrs. John Laing.**—Soft, delicate pink; free flowering.

**Paul Neyron.**—Large, deep rose; double and handsome.

**Prince Camille de Rohan.**—The best dark maroon.

**Ulrich Brunner.**—Rich, glowing crimson; large.

**OTHER VARIETIES.**—If you want varieties not offered in the collection above, you can make your own selection from the bush or climbing roses listed on pages 73 to 82 at 15c each; 4 for 50c, with the exception of those priced above 40c each, which will be one-half of the two-year price.

Remember, the above plants are not for fall delivery. For large, hardy, field-grown 2 and 3-year-old rose bushes, see following pages.

## INDEX TO OUR TWO-YEAR-OLD ROSES

On this page we give an alphabetical list of all the roses we have to offer in two-year-old sizes together with the prices of same and the pages in our catalog on which they are described. Remember that our two-year-old roses are field grown, with strong, heavy branches and ample roots, and with good care will produce a profusion of flowers the first year.

| NAME                         | Page | Price | NAME   | Page                             | Price |            |
|------------------------------|------|-------|--------|----------------------------------|-------|------------|
| American Beauty              | 76   | \$.35 | \$.50  | Madame Maurice de Luze           | 75    | .75        |
| American Pillar              | 81   | .40   |        | Madame Melanie Soupert           | 78    | .50 .60    |
| Avoca                        | 76   | .40   | .50    | Madame Ravery                    | 78    | .50        |
| Baroness Rothchild           | 75   | .35   | .50    | Madame Segond Webber             | 75    | .50 .60    |
| Blanch Moreau                | 79   |       | .35    | Maman Cochet                     | 75    | .35 .50    |
| British Queen                | 74   | 1.25  |        | Mme. Cecile Brunner              | 75    | .35 .50    |
| Chateau de clos Vougeot      | 76   |       | .75    | Marechal Neil (Cib.)             | 80    | .35 to .75 |
| Chapeau de Napoleon          | 79   |       | .35    | Marie Van Houtte                 | 77    | .35 .50    |
| Cib. Kaiserin                | 80   | .35   | .50    | Marquis de Sinety                | 77    | .60 .75    |
| Cib. Madam Caroline Testout  | 80   | .40   | .50    | Melody                           | 77    | 1.50       |
| Cib. Richmond                | 80   |       | .75    | Mildred Grant                    | 74    | .40 .50    |
| Cib. Meteor                  | 80   | .40   | .50    | Miss Cynthia Forde               | 75    | 1.00       |
| Cib. Papa Gontier            | 80   | .50   | .60    | Moss Roses                       | 79    |            |
| Cib. Safrano                 | 80   |       | .40    | Mrs. A. Waddell                  | 79    | .50 .60    |
| Cib. Wootton                 | 80   | .40   | .50    | Mrs. Aaron Ward                  | 78    | .50 .60    |
| Crimson Rambler              | 81   |       |        | Mrs. Frank Bray                  | 78    | 1.00       |
| Dorothy Page Roberts         | 78   | .50   | .60    | Mrs. Foley Hobbs                 | 74    | 1.00       |
| Dorothy Perkins              | 81   | .25   | to .50 | Mrs Muir Maclean                 | 76    | 1.00       |
| Duchess of Wellington        | 77   |       | .75    | My Maryland                      | 79    | .40 .50    |
| Dr. W. Van Fleet             | 80   | .50   |        | Old Gold                         | 79    | 2.50       |
| Flower of Fairfield          | 81   | .35   | .50    | Papa Gontier                     | 76    | .35 .50    |
| Florence Pemberton           | 74   | .40   | .50    | Pink Frau Karl Druschki          | 75    | .75        |
| Frau Karl Druschki           | 74   | .25   | to .50 | Perle Des Jardines               | 77    | .35 .50    |
| Eugene Verdier               | 79   |       | .35    | Prince Camille de Rohan          | 76    | .35 .50    |
| General McArthur             | 76   | .35   | .50    | Pillar of Gold                   | 80    | .50        |
| General Jacqueminot          | 76   | .25   | .50    | Rayon d'Or                       | 77    | 1.00       |
| Geoffrey Henslow             | 78   |       | 1.00   | Reine Marie Henriette (Cib.)     | 80    | .35 .50    |
| George Dickson               | 76   |       | 1.50   | Rhea Reid                        | 76    | .40 .50    |
| Glorie de Lyon (Cib.)        | 80   | .40   | .50    | Richmond                         | 76    | .25 to .50 |
| George Lyonaise              | 74   | .25   | .35    | Rosa Rugosa, white or red        | 81    | .35        |
| Hiawatha                     | 81   | .35   | .50    | Safrano                          | 77    | .35 .50    |
| His Majesty                  | 76   |       | .75    | Silver Moon                      | 80    | .50        |
| Hugh Dickson                 | 76   | .35   | .50    | Souv. de Pierre Notting          | 77    | .35 .50    |
| J. B. Clark                  | 76   | .35   | .50    | Souv. de Pres. Carnot            | 75    | .40 .50    |
| Jonkeer J. L. Mock           | 78   | .50   | .60    | Sunburst                         | 77    | .75        |
| Joseph Hill                  | 75   |       | .60    | Tausendschon — Thousand Beauties | 81    | .35 .50    |
| Juliet                       | 78   | .60   | .75    | Tree Roses                       | 79    | 1.00 1.50  |
| Kaiserin Aug. Victoria       | 74   | .25   | to .50 | Ulrich Brunner                   | 76    | .25 to .50 |
| Killarney                    | 75   | .35   | .50    | Verichenblau                     | 81    | .35 .50    |
| Lady Battersea               | 76   | .35   | .50    | White Dorothy                    | 81    | .35 .50    |
| Lady Gay                     | 81   | .35   | .50    | White Killarney                  | 74    | .35 .50    |
| Lady Hillington              | 77   |       | .75    | White Rambler                    | 81    | .35 .50    |
| Lady Ursula                  | 75   | .50   | .60    | White Maman Cochet               | 81    | .35 .50    |
| La France                    | 75   | .25   | to .50 | Weeping Tree Roses               | 79    | 1.50 2.00  |
| Lyon                         | 78   | .50   | .60    | Winnie Davis                     | 75    | .35 .50    |
| Mable Drew                   | 77   |       | 1.00   | Willowmere                       | 79    | 2.50       |
| Madame Alfred Carrier (Cib.) | 80   | .35   | .50    | Yellow Rambler                   | 81    | .25 to .50 |
| Madame Caroline Testout      | 75   | .25   | to .50 |                                  |       |            |
| Madame Hoste                 | 77   | .35   | .50    |                                  |       |            |
| Madame Leon Pain             | 75   | .35   | .50    |                                  |       |            |

**DOZEN PRICES.**—We give you our 35c selected two-year-old Bushes at \$3.00 doz.; our 40c and 50c extra selected at \$4.00 doz. On higher priced kinds multiply the single price by 10 to get the dozen price. We can supply the ordinary grade of 25c bushes at \$2.50 doz.

**SPECIAL**—All rose bushes sent PREPAID this year as we are employing NO AGENTS—see note inside front cover—(Tree roses are not mailable.)

### SHIPPING AND DELIVERY.

We can fill orders for our large two-year-old rose bushes any time from October to May—the best time is during favorable weather in November, December, January, February and March.

**SHOULD BUSHES ARRIVE VERY DRY**, bury tops and all in damp ground or put in a tub of water for a few days. It will benefit them very much.

**WE PRUNE THE TOPS** of all bushes sent by mail as they carry better. If all rose bushes when set out were cut back to within 10 or 12 inches of the ground, results would be better than when tops are left on.

**TRUE TO NAME**—We guarantee all roses true to label to the extent that we will replace FREE OF CHARGE any that may prove otherwise. If the varieties of the roses ordered cannot be supplied or bought locally, others equally as good or better and correctly labeled will be substituted, UNLESS OTHERWISE ORDERED.

## For your convenience—Classification under colors

**Read this**—This year we have arranged our roses all under their predominating color, which appeals to us as the most convenient way. While the descriptions are necessarily short on account of limited space, you will get class, color and main points of merit. We have tried to eliminate all out-of-date and inferior sorts. If you want roses for hedging or special beds for certain effects, we will gladly make selections for you or give you our opinion.

NOTE—Alphabetical Index of all varieties with prices on preceding page.

### White Roses

**BRITISH QUEEN (H. T.)**. Pure white, large full flowers of exquisite form, opening freely in all weathers; promises to be one of the best white roses for bedding and cutting. Surpassing "Druschki" in beauty of form and purity. **Each, \$1.25**

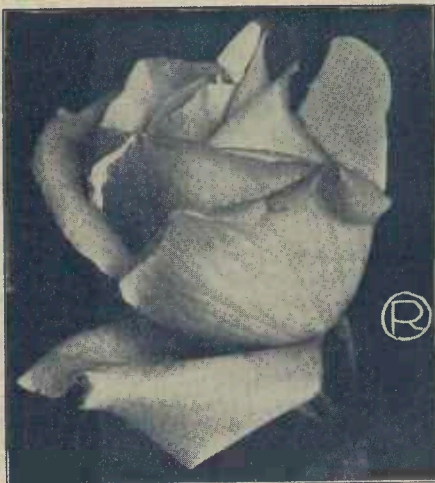
**FRAU KARL DRUSCHKI (H. P.)** This magnificent variety has taken first prize at all the great flower shows in Europe and America, and is undoubtedly one of the grandest, hardy, pure-white roses ever introduced. Makes splendid buds and immense flowers; vigorous grower, and a constant and abundant bloomer. A splendid variety for hedges. **Each, 25c, 35c and 50c**

**MRS. FOLEY HOBBS (T.)**.—A veritable giant among Tea Roses. The huge thick shell-shaped petals produce a bloom of grand size and build, while the length of stems are remarkable. Color delicate ivory white delicately tinged pink on edge of petals. Deliciously scented. A grand bedding rose. Gold Medal N. R. S. **Each \$1.00**

**WHITE KILLARNEY**.—A vigorous hybrid tea of recent introduction. Its long, pointed buds, excellent substance and delicious odor recommend it to every lover of the rose. Color, white, lightly suffused with pale pink. **Each, 35c and 50c**

### White Showing Some Cream or Pink

**GLORIE LYONAISE (H. T.)**.—Color chamois yellow; deepest at the center, passing to creamy white; large, full, sweet and very distinct. **Each, 25c and 35c**



Mrs. Foley Hobbs.



White Killarney.

**FLORENCE PEMBERTON (H. T.)**.—Creamy white, suffused pink; the edge of the petals occasionally flushed peach; flowers very large and full, of perfect form; one of the finest roses. **Each, 40c and 50c**

**KAISERIN AUGUSTA VICTORIA (H. T.)**.—A beautiful rose, with elegant, large, pointed buds, and very large, full double flowers; color delicate creamy white; deliciously fragrant. The plant is a strong, healthy grower and constant bloomer; one of the choicest and most trustworthy garden roses; very popular. **Each, 25c, 35c and 50c**

**MILDRED GRANT (H. T.)**.—Moderate, silvery white, shaded peach; blooms large with high pointed center; not a very free grower, but so beautiful that every collection should include it. **Each, 40c and 50c**

**WHITE MAMAN COCHET (T.)**.—The name describes this new rose—pure white, grand substance; immense size, exquisitely fragrant and a free bloomer; buds long and pointed; very popular. **Each, 35c and 50c**

**DOZEN PRICES**.—We give you our 35c select two-year-old bushes at \$3.00 doz.; our 40c and 50c extra select at \$4.00 doz. We can supply the ordinary grade of 25c bushes at \$2.50 doz. Complete alphabetical index page 73. All charges prepaid.

**DOZEN PRICES**—We give you our 35c select two-year-old bushes at \$3.00 doz.; our 40c and 50c extra select at \$4.00 doz. We can supply the ordinary grade of 25c bushes at \$2.50 doz. Complete index page 73. (All charges prepaid.)

**Pink**

**BARONESS ROTHCHILD (H. P.)**—Large size, fine globular form; color bright rosy pink. Each 35c and 50c

**JOSEPH HILL (H. T.)**—Vigorous; beautiful clear salmon pink. Outside of petals shaded pink, orange and copper; bloom large, full and perfect form. Each 60c

**KILLARNEY**—It mildews so badly we do not recommend it. Use Madame Leon Pain in place of it.

**LA FRANCE (H. T.)**—Perhaps no rose is better known or more highly valued than La France; both flowers and buds are of grand size; color a silvery pink; a general favorite. Each 25c, 35c and 50c

**LADY URSULA (H. T.)**—Truly magnificent, of vigorous, erect growth and free-blooming qualities. Flowers are very large, full and of great substance and perfect form, with high center, from which the petals gracefully reflex; color, a delightful shade of flesh pink; delicately tea-scented. Each 50c and 60c

**MADAME CAROLINE TESTOUT (H. T.)**—Probably no rose stands higher in public estimation today than this elegant rose. It is a vigorous, healthy grower and profuse bloomer. Has no equal for massing or hedging. The petals are large, of elegant form, brilliant pink, exquisitely edged and bordered with clear, silvery rose; both flowers and buds are extra large and of very elegant form. Each 25c, 35c and 50c

**MADAME LEON PAIN.**—A most wonderfully beautiful rose. Perfect in outline and form. Salmon-pink overlaid with silvery-white, center yellow, a lovely combination of colors. Similar, but better than Killarney. Each 35c and 50c



Lady Ursula.

tender rosetinted yellow, large and full. On account of its size and color this variety will soon gain the same popularity as the famous White Druschki. Each 75c

**MAD. MAURICE DE LUZE (H. T.)**—One of the most satisfactory roses of its color; it has splendid large cupped flowers, with heavy petals of a live, rich, rose-pink, with carmine center, the reverse of the petals shading lighter; a vigorous grower, free-flowering and very fragrant. Each, 75c

**MAD. SECOND WEBBER (H. T.)**—A magnificent light rosy salmon. Buds long and pointed that expand into flowers of immense size. In its particular color there is nothing to touch it. It blooms with remarkable persistence, and it is unusual to see an imperfect bud or flower. As a cutting rose it is of premier quality. Each, 50c and 60c

**MAMAN COCHET (T.)**—This is one of the most beautiful Tea Roses we list; extensively planted and very popular; the color is a deep, rosy pink, the inner side of petals silvery rose. Each, 35c and 50c

**MADMOISELLE CECILE BRUNNER.**—Dwarf Polyanthus. Exquisite little roses, dainty and pointed in the bud, bright salmon pink, showing yellow in the center. Each, 35c and 50c

**MISS CYNTHIA FORDE (Hugh Dickson, 1909).**—This rose possesses in a superlative degree the essential points of an ideal garden rose, viz., size, form, brightness, vigor and habit. In color it is a deep brilliant rose-pink, very large, perfectly formed and very full. It is sweetly perfumed and lasts a long time in good condition. Gold medal N. R. S. Each, \$1.00

**SOUV. DE PRESIDENT CARNOT (H. T.)**—Of extraordinary beauty, very large, full, deep and deliciously sweet; lovely shell pink, delicately tinted with golden fawn on rich, creamy white; superb. Each, 40c and 50c

**WINNIE DAVIS (H. T.)**—A fine new American pedigreed rose. Color, rich apricot-pink, shaded to flesh at base of petals. Beautifully formed buds and flowers; very free in growth and bloom. Each, 35c and 50c



Miss Cynthia Ford.

**PINK FRAU KARL DRUSCHKI (H. P.)**—This beautiful rose caused a sensation when first exhibited. A very vigorous grower of erect branching habit. Flowers

**SPECIAL**—All rose bushes sent PREPAID this year as we are employing NO AGENTS—Read what we say on this subject inside front cover.



## Scarlet—Bright Red

**AMERICAN BEAUTY (H. P.)**—It is a quick grower, constant bloomer, making magnificent buds and large, bold flower; color rich, rosy red, shaded in the most charming manner. **Each 35c and 50c**

**GENERAL JACQUEMINOT (H. P.)**—Bright shining crimson scarlet; very rich and velvety; exceedingly brilliant and handsome; one of the best and most desirable for open ground. **Each 25c, 35c and 50c**

**GENERAL McARTHUR (H. T.)**—Color, brilliant scarlet; one of the most fragrant of the June scented roses and a true ever-bloomer; a perfect garden rose. **Each 35c and 50c**

**J. B. CLARKE (H. T.)**—New Irish variety of great merit, either for garden decoration or for cut flowers. The color is bright scarlet; petals large, shell-shaped and of immense substance; flowers very large, full and perfectly formed; growth vigorous and free-branching habit; flowering freely and continuously from early in summer until late in autumn. **Each 35c and 50c**

**LADY BATTERSEA (Red Niphetos) (H. T.)**—Long, oval, pointed buds; the color is a bright, cherry crimson; an unusually showy variety. **Each 35c and 50c**

**PAPA GONTIIE (T.)**—Large and semi-double; a vivid cherry red color, shaded yellow; reverse of petals crimson. Prized highly for its beautiful pointed buds. **Each 35c and 50c**

**RHEA REID (H. T.)**—A new rose of great merit. Elegant long buds and large flowers of great beauty. Color, a vivid scarlet. Strong and healthy, free bloomer. **Each 40c and 50c**

**RICHMOND (H. T.)**—A splendid new American rose of great merit; strong in growth; splendid foliage and long stems; color a magnificent, rich scarlet-crimson; the most vivid we have yet seen among ever-blooming roses; profuse bloomer. **Each 25c, 35c and 50c**

**ULRICH BRUNNER (H. P.)**—This is really a magnificent rose; extra large, bold flowers, full and globular; petals large and of good substance; color rich, glowing crimson, elegantly flamed with scarlet; a good grower and free bloomer. **Each 25c, 35c, 50c**

## Crimson—Deep Red

**AVOCA (H. P.)**—Brilliant velvety-crimson with large smooth petals and high pointed center; buds very long; flowers of largest size and sweetly perfumed. Awarded gold medal of National Rose Society of England. This is catalogued abroad as a Hybrid Tea; in America it is a Hybrid Perpetual. **Each 40c and 50c**

**CHATEAU DE CLOS VOUGEOT (H. T.)**—A very rich, fiery scarlet shading to deep velvety crimson; immune from black spot and mildew. The flowers are large, full and globular and are borne singly on good stems. It is delightfully fragrant, a prolific and continuous bloomer. **Each 75c**

**HUGH DICKSON (H. P.)**—Brilliant crimson, shaded scarlet; good size and fine form; petals slightly cupped and reflexed; highly perfumed. **Each 35c and 50c**

**HIS MAJESTY (H. P.)**—The **Crimson Frau Karl Druschki**. Another rose classed by some as Hybrid Tea. Dark, deep crimson, shaded deep vermilion-crimson towards the edges. The blooms are full, of great size, having wonderful substance and depth of petal, with high pointed center. It is also one of the sweetest perfumed roses in cultivation. Awarded gold medal N. R. S. 1908. A grand all around Red Hybrid. **Each, 75c**

**MRS. MUIR MACKEAN (H. T.)**—A new rose of special merit. In color it stands unique and quite distinct, bright carmine crimson, without shading; a grand, bold, well-built flower, perfect in shape and form, of the most modern type, extra perpetual flowering. A grand exhibition and garden rose, with a perfect habit of growth, and most attractive and pleasing color; a really superb variety; fragrant. Award by the N. R. S. **Each, \$1.50**



His Majesty.

(Crimson Frau Karl Druschki)

## Dark Red

**GEORGE DICKSON (H. T.)**—Very strong and vigorous, upright growth, flowers of the largest size; perfect in shape and unique in color, being a velvety blackish crimson with the back of the petals heavily veined with pure crimson maroon. Delightfully scented. Pronounced by all who have seen it to be unequalled to date. Awarded the gold medal by National Rose Society. **Each, \$1.50**

**PRINCE CAMILLE DE BOKAN (H. P.)**—Very dark, rich, velvety crimson, passing to intense maroon, shaded black; one of the darkest roses and very handsome. Aside from George Dickson we believe it the best of all dark velvety roses. **Each, 35c and 50c**

**DOZEN PRICES.**—We give you our 35c select two-year-old bushes at \$3.00 doz.; our 40c and 50c extra select at \$4.00 doz. We can supply the ordinary grade of 25c bushes at \$2.50 doz. Complete alphabetical index page 73. All charges prepaid.

## The Best Yellow Roses

**DUCHESS OF WELLINGTON.**—Intense saffron-yellow stained with rich crimson, which, as the flower develops, becomes deep coppery saffron yellow. Delightful fragrance; a great acquisition for garden or decorative purposes. **Each, 75c**

**LADY HILLINGDON (T.).**—Deep apricot yellow, long and pointed bud, a fine forcing or garden rose, excellent for cutting. Flowers are of good substance, very lasting and foliage handsome and luxuriant. Lady Hillingdon is considered the best decorative rose in its class. This aristocratic beauty is a seedling from Papa Gontier and Madame Hoste. **Each, 75c**

**MABEL DREW** (Dickson & Sons).—A magnificent rose, exquisitely shaped, with smooth, circular petals of great substance, arranged in perfect symmetry. The blooms are large and full. The color is deep cream, passing to intense canary-yellow in the center as the bloom develops, with a delicious perfume and sturdy, vigorous growth. Awarded a gold medal by the National Rose Society. **Each, \$1.00**

**MARQUISE DE SINETY.**—Everyone who has seen this beautiful rose is enthusiastic over it. The buds are of a rich yellow-ochre, suffused with carmine; the expanded flower, which is of good size, is fairly double, of perfect cupped shape, and of a rich folden-yellow or Roman ochre, shaded rosy-red, delightfully fragrant. A splendid garden rose for summer blooming; vigorous and hardy. One of the grandest of the new roses. **Each, 60c and 75c**



Rayon d'Or.

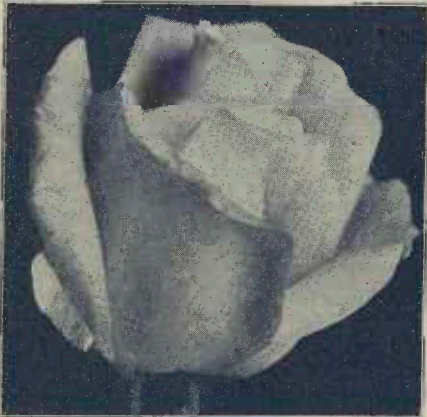
**PERLE DES JARDINS (T.).**—Beautiful, clear, golden yellow, entirely distinct from any other variety. **Each 35c and 50c**

**RAYON D'OR or GOLDEN RAYS** (Pernet Ducher, 1910). A gorgeous new golden-yellow rose. A strong grower, with glossy foliage, which appears immune to the attacks of mildew. Flowers large, of globular form, color beautiful yellow as the buds begin to expand, toning to golden-yellow as they fully develop; a superb rose. **Each, \$1.00**

**SAFRANO (T.)** Bright apricot yellow, tinged orange and fawn; valued highly for its beautiful buds; very profuse in bloom, and deliciously tea scented. **Each 35c and 50c**

**SUNBURST (H. T.)** This new variety is a veritable giant among yellow roses, throwing up heavy canes clothed with most ornamental foliage and crowned with immense buds and flowers. The buds are very long and of the most beautiful form, opening into a gorgeous colored flower. The color is a rich cadmium yellow shaded orange yellow. **Each, 75c**

**SOUV. DE PIERRE NOTTING (T.)** Very large, perfectly full; of elegant form; has a beautiful, long bud; color apricot yellow; very desirable. **Each 35c and 50c**

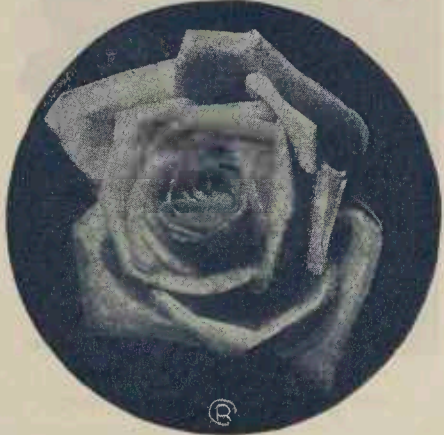


Duchess of Wellington

**MADAME HOSTE (T.)**—Creamy yellow, with deep buff yellow, center; very large and delicately sweet, a constant and profuse bloomer; one of the finest sorts in cultivation. **Each 35c and 50c**

**MARIE VAN HOUTTE.**—Of a fine, straw-yellow color; outer petals washed and shaded with a bright rosy carmine; occasionally the whole flower will be suffused with light pink. **Each 35c and 50c**

**MELODY.**—New Irish rose. A magnificent golden yellow hybrid tea. A new product of the famous rosarians, Alexander Dickson & Sons, who describe this wonderful rose as being of a “lovely shade of yellow, deepening to apricot in the center, perfect in form and very double, one of the handsomest yellow roses, and as a garden rose cannot be surpassed. The bush is hardy, vigorous and constantly in bloom.” **Each \$1.50**



Perle Des Jardins.

**DOZEN PRICES.**—We give you our 35c select two-year-old bushes at \$3.00 doz.; our 40c and 50c extra select at \$4.00 doz. We can supply the ordinary grade of 25c bushes at \$2.50 doz. See complete alphabetical index page 73. (All charges prepaid.)

## Combinations of Yellow, Orange, Red or Pink

**DOBOTHY PAGE ROBERTS (H. T.).** Coppery pink, suffused with apricot yellow, very free and profuse bloomer, a delightful garden rose. **Each, 50c and 60c**

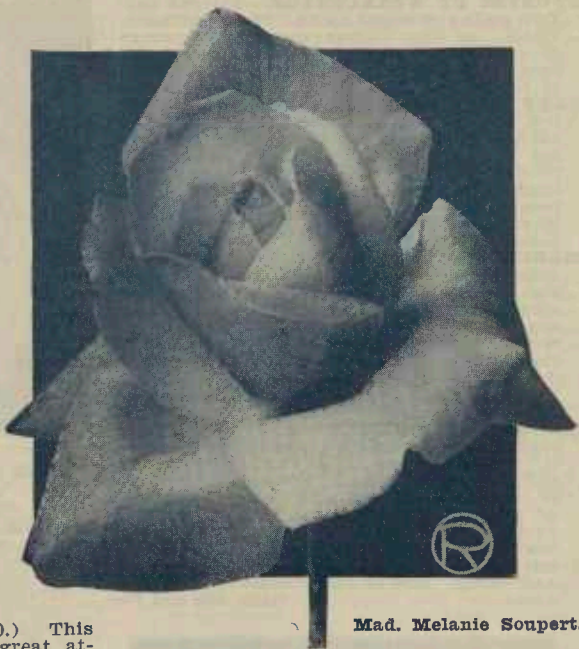
**GEOFFREY HENSLAW.** In the production of this variety we have achieved a marvelous advance in the shade of color so much desired in this class. It is a delightful orange-crimson, of great brilliancy. The blooms are freely produced, and are large, full and of perfect imbricated globular form; the petals are smooth, circular, and of great substance. The growth is vigorous and erect, with charming green foliage. A good exhibition flower and a most valuable addition, the color being so attractive and distinct. Deliciously pure rose perfume. **Each, \$1.00**

**JONKEER J. L. MOCK (H. T.).** A magnificent and unique rose. Inside of petals red, outside bright pink. Of fine form, good substance and largest size. A strong, rapid grower and free bloomer. This rose has been awarded eight prizes at the recent European shows. **Each, 50c and 60c**

**JULIET (Wm. Paul & Son, 1910.)** This beautiful variety has attracted great attention in England during the past two seasons, and when better known is certain to become as popular with us. It is a most distinct and attractive novelty, with large, perfect flowers. The outside of the petals is old gold, the interior rich rosy-red, changing to deep rose as the flowers expand; of powerful, delicious fragrance; greatly admired. **Each, 60c and 75c**



**Ulrich Brunner.**  
Beautiful free-  
Flowering Rose.  
Very fine for mass-  
ing or hedges.



**Mad. Melanie Soupert.**

**MRS. FRANK BRAY (Dickson & Sons).** This is a great advance on the lovely and justly esteemed Mme. Ravary, which until now was the best of its color amongst the decorative or garden varieties. Mrs. Frank Bray during its several years' trial has proven immensely superior to its prototype, not only in vigorous growth but also in color, which is a rich deep coppery-cru, developing as the flower opens to a very delicate coppery-fawn with a shading of ivory shell-pink. **Each, \$1.00**

**LYON ROSE (H. T.).** The flowers are of a superb shrimp pink color, with salmon and chrome yellow shadings, beautiful beyond description; large buds, magnificently formed; petals elegantly formed and large; flowers full, very large and on stiff stems. Bound to become one of the best known varieties. **Each, 50c and 60c**

**MAD. RAVARY (H. T.).** Vigorous; salmon fawn, often golden orange; free and continuous bloomer; a fine rose. **Each, 50c**

**MAD. MELANIE SOUPERT (H. T.).** Vigorous, saffron yellow suffused with carmine and pink, very large, free blooming, and one of the most beautiful and distinct sorts. A great favorite. (See cut.) **Each, 50c and 60c**

**MRS. AARON WARD (H. T.).** This rose is a real joy to the grower and absolutely distinct. One of the most delightful roses of recent years in a color that catches the eye at once. Coppery-orange in the open bud, golden-orange when partly developed, pinkish-fawn of lovely shade when fully open; when it looks like a full fluffy-silk rosette. No wonder everybody that sees it falls in love with it; one of the most beautiful roses in existence. (See cut, page 79.) **Each, 50c and 60c**

**DOZEN PRICES.**—We give you our 35c select two-year-old bushes at \$3.00 doz.; our 40c and 50c extra select at \$4.00 doz. We can supply the ordinary grade of 25c bushes at \$2.50 doz. See complete index of Roses, page 73. (All charges prepaid.)

## Combinations of Yellow, Orange, Red or Pink—Continued

**NOTE**—If you want rich color in your yellow and orange roses, protect them from the hot sun or plant in partially shaded places.

**MRS. A. WADDELL (H. T.)** A lovely new color; deep reddish apricot toned with salmon. Same form as Papa Gontier, but with much longer buds. It is a vigorous grower and constant bloomer, and incidentally a wonderful advance in roses approaching this color. **Each, 50c and 60c**

**MY MARYLAND.** The vigorous growing and free blooming habit of this rose is little less than marvelous. The flowers are somewhat globular in form, very full with shell-shaped petals of waxlike texture. The color is a bright glowing pink, each petal being shaded lighter at its base. We know of no rose which produces fine flowers so freely as does this sort. Very hardy and apparently immune from disease. **Each, 40c and 50c**



Mrs. Aaron Ward.

**OLD GOLD.** (McCredy & Son.) This is undoubtedly the most beautiful decorative rose in existence, and the most glorious color that has ever been seen in any rose; the tint is a vivid reddish orange with rich coppery red and coppery apricot shadings. Holds its color well. A gem for cut flowers and all kinds of decorations—the long, dainty buds as well as the open flowers lasting a long time in perfect condition. Its dark coppery foliage forms a delightful contrast; it is sweetly scented; continuous flowering; a good grower; and absolutely mildew proof. Awarded the gold medal of the National Rose Society, 1912. **Each, \$2.50**

**WILLOWMERE.** A very vigorous grower of erect branching habit, with few thorns, light green foliage, long carmine coral red bud carried on long, stout flower stalks, very large flower, full and of elongated cup shape, coloring of a rich shrimp pink, shaded yellow in the center and toning to carmine pink towards the edges of petals. This superb novelty was greatly admired and commented on at the Royal International Horticultural Exhibition, London last year. A great improvement over the Lyon Rose in color, form, growth and hardiness. **Each, \$2.50**

### Moss Roses

Strong, vigorous growers, much admired for moss-covered buds; hardy; most varieties bloom but once in a season, but remain for a long time and very handsome.

**Price, 35c each**

- BLANCH MOREAU.** Best pure white.
- CHAPEAU DE NAPOLEON.** Beautiful pink.
- EUGENE VERDIER.** Best Red Moss.

### Standard or Tree Roses

Prices, \$1.00 to \$1.50 each, according to size and shape of head. (Cannot be mailed.)

Tree Roses are budded or grafted on hardy rose stocks, about four feet high. They soon make good-sized heads, forming a small tree, especially desirable for planting as single specimens in back grounds or rows along walks or driveways.

Not all varieties are obtainable, but order any color or variety you wish, and we will send it or give you as good a substitute in same color as possible.

### Weeping Tree Roses

These are produced by budding the trailing varieties on four or five-foot standards. They are very showy and quite a novelty.

**Each, \$1.50 to \$2.00 (Cannot be mailed.)**



Tree Rose—Frau Karl Druschki.

Some Charge More, But No One Offers Better, Stronger, Healthier, True-to-Name Rose Bushes Than We. See Complete Index and Price List Page 73.

## Climbing Roses. Hardy, Large Flowering

The lavish profusion of bloom on climbing Roses, literally hundreds of flowers on each plant, their beautiful colors and exquisite fragrance render them unequalled for covering houses, arbors, pergolas, fences and boundary walls. Every home should have a few of these climbing Roses gracing its porches and corners, which will in time reach to second-story windows and bring much enjoyment to their owners, as well as being the admiration of all who see them in bloom.



Climbing Papa Gontier.

### CLIMBING MADAME CAROLINE TESTOUT.

The greatest acquisition to our list of climbing roses for a number of years. Covered during the season with immense globular flowers of the same beautiful shade of pink as seen in the bush sort. Without doubt the finest pink climbing rose to date. Is being planted freely in all Pacific Coast states. **Each, 40c and 50c**

**CLIMBING KAISERIN (Mrs. Robt. Peary.)** Flowers fine ivory white; a grand addition to our list of climbing roses. **Each 35c and 50c**

**CLIMBING METEOR.** Very free flowering. All through the growing season it produces rich, dark, velvety crimson flowers perfectly double. **Each 40c and 50c**

**CLIMBING PAPA GONTIER (T).** Same as the old favorite bush Papa Gontier, having the same splendid, cherry-red flowers, but of a strong climbing habit of growth. **Each 50c and 60c**

**CLIMBING RICHMOND (H. T.)** Very free vigorous sport of this valuable crimson rose, identical with the original except in habit, should prove one of the best climbing novelties of recent years, both for conservatory and outdoor work. **Each 75c**

**CLIMBING SAFRANO (Reve d'Or).** A strong climber; color orange yellow, or deep saffron; good size; full and sweet. **Each 40c and 50c**

**CLIMBING WOOTTON.** A strong and rampant climber, growing in one season to a height of 10 to 15 feet, with large and heavy insect-proof foliage, it produces superbly formed buds and flowers in wonderful profusion. They are bright red, passing to violet-crimson, richly shaded. **Each 40c and 50c**

**DR. W. VAN FLEET. (Wichuriana.)** Flowers when open run four inches and over in diameter. The center is built high, petals beautifully undulated and cupped. The color is a remarkable delicate shade of flesh-pink on the outer surface, deepening to rosy-flesh in the center. The flowers are full and double, of delicate perfume; buds pointed. It very much resembles Souv. de Pres. Carnot in color. Superb. **Each, 50c**

**GLOIRE DE DIJON.** Noted for the great size of its flowers, its delicate tea scent, and its shades of color, being a blending of amber, carmine and cream; a magnificent climber. **Each, 40c and 50c**

**MADAM ALFRED CARREERE.** Extra large, full flowers; very double and sweet, and a most profuse bloomer; color rich, creamy white, faintly tinged pale yellow. **Each, 35c and 50c**

**MARECHAL NEIL.** A magnificent, deep golden yellow variety; so famous as to need no description; grown the world over for its immense yellow flowers; the finest rose of its color in existence. **Each, 35c, 50c and 75c**

**PILLAR OF GOLD.** A most vigorous climber; produces large, double buds and flowers of perfect form. Color, rich apricot, shaded with carmine and Indian red. A rare colored variety and very desirable. **Each, 50c**

**REINE MARIE HENRIETTE.** Vigorous grower; flowers large, full; color glowing crimson; elegantly shaded. **Each, 35c and 50c**

**SILVEE MOON.** A magnificent white climber, cross of Wichuriana and Cherokee, large, semi-double blooms of good substance with golden stamens. Flowers are carried on long stems. Foliage is abundant, delightfully fragrant, of a bronze green color and is immune to mildew. **Price, each, 50c**

Note—For complete index of Roses, see page 73. We discarded 39 old and added 20 new varieties this year—we try to keep up-to-date.

## RAMBLER OR PILLAR ROSES

The following climbing Roses all grow vigorously, and are profuse bloomers. The flowers are borne in large clusters. They all belong to the polyanthus class, or more commonly known as the Ramblers.



One Flower Spray—Flower of Fairfield.

**AMERICAN PILLAR.** A single-flowering variety of great beauty, which appeals to everyone. The flowers are of enormous size, three to four inches across, of a lovely apple blossom pink, with a clear white eye and cluster of yellow stamens. These flowers are borne in immense bunches, and a large plant in full bloom is a sight not easily forgotten. They last in perfection a long time, and are followed by brilliant red hips or berries, which are carried late into the winter; and as the plant frequently retains its lovely green foliage until the end of November, it forms a beautiful decorative subject throughout the autumn months. **Each, 40c**

**CRIMSON RAMBLER**—See Flower of Fairfield.

**DOROTHY PERKINS.** Introduced by a well known American nurseryman, this beautiful new Rambler Rose is becoming even more popular than the original Crimson Rambler. And well it may, for it is indeed a finer pillar rose than that famous variety. The growth of a single season is wonderful, its handsome glossy green foliage being one of its strong points. The flowers, however, are its crowning beauty, being borne in immense clusters of 15 to 30, and possess great lasting qualities. Flowers a beautiful shell-pink, very double with petals artistically crinkled. Remarkably pretty pointed buds. This rose is extremely hardy and will withstand the coldest weather. We advise our friends to plant this variety where it can be allowed plenty of room. **Each, 25c, 35c and 50c**

**DOZEN PRICES.**—We give you our 35c select two-year-old bushes at \$3.00 doz.; our 40c and 50c extra select at \$4.00 doz. We can supply the ordinary grade of 25c bushes at \$2.50 doz. For complete index see page 73. (All charges prepaid.)

**HIAWATHA.** It must be seen to be appreciated. Its flowers are about 1½ inches across, and produced in long, pendulous sprays, with frequently from 40 to 50 flowers on a spray; in color it is brilliant ruby carmine with a clear white eye and a mass of golden stamens—a glowing combination of colors, which can be seen at a great distance; of vigorous growth, with bright green, glossy foliage, which is retained until late in fall. **Each, 35c and 50c**

**FLOWERS OF FAIRFIELD.** A perpetual flowering "Crimson Rambler;" this has long been looked for and is undoubtedly one of the most valuable additions to this section since its introduction. The flowers are brighter than the original, and are produced in great profusion from early summer to late autumn; most valuable rose. **Each 25c, 35c and 50c**

**LADY GAY.** Of vigorous growth, with flowers of a delicate cerise-pink, passing to soft tinted white. The effect of a plant in full bloom with the combination of the soft white flowers, cherry-pink buds, and the deep green of the foliage is indeed charming. **Each, 35c and 50c**

**TAUSENSCHON. Thousand Beauties.** Entirely distinct not only in Ramblers, but in climbing roses generally. The individual flowers are very large for this type of rose, being fully 3 inches across, of a most elegant and graceful form, and as beautiful as a semi-double Azalea. A most delightful shade of soft pink when first opening, changing to carmine on the reverse of petals when fully expanded. These are produced in trusses of from 10 or 15 flowers, each truss a veritable bouquet. It is a rampant grower, very healthy with magnificent foliage. **Each 25c, 35c and 50c**

**WHITE DOROTHY.** In this grand new Rambler we at last have a hardy white climbing Rose which will grow in any part of the country under adverse conditions and one which will rank up with Crimson Rambler and Dorothy Perkins as a pillar and porch rose. As its name indicates, it is a sport from Dorothy Perkins, possessing all the fine qualities of that grand variety, but having pure snowwhite flowers. This rose, we believe, will become a fixture in the list of climbing roses. **Each, 35c and 50c**

**YELLOW RAMBLER (Aglaja.)** Strong grower, profuse bloomer. **Each, 25c, 35c and 50c**

**VERLCHENBLAU (Blue Rambler.)** Has attracted much attention and is the first rose of its color ever produced. This is a vigorous climber, flowers medium size, semi-double, borne in large clusters; color on opening is a rosy lilac. **Each 35c and 50c**

**WHITE RAMBLER (Thalia.)** White Dorothy is better.

## Rugosa Roses

These have glossy green foliage and clusters of beautiful, fragrant single flowers. During the autumn and winter they are covered with their large, brilliant, attractive red seed pods. **Each, 35c; doz., \$3.00**

## FRUIT TREES, BUSHES, VINES AND PLANTS



**HIGHEST QUALITY STOCKS QUICK DELIVERY CHARGES PREPAID**

Read special prepay instructions inside front cover.

We are making a specialty of select fruit stock. This branch of our business has made immense growth. Our manager has been in this line of work in Oregon for over 20 years. Aside from large stocks grown for us on contract, we are in close touch with the largest, most reliable and careful growers. We know where the best stock is produced.

### Our Descriptive Fall Catalog

Limited space in this catalog will not permit us to give full descriptions of all our Fruit, Shade and Ornamental Trees and Shrubs and Vines, but we will gladly mail you a copy of our **DESCRIPTIVE FALL CATALOG OF NURSERY STOCK**.

You can safely order any of the following varieties. They are the leaders for this coast, but you can order any other variety wanted and we will get it, if obtainable.

### Apples

|                              | Each.       | Doz.   |
|------------------------------|-------------|--------|
| 1 year old, 3 to 4 feet..... | \$.18       | \$1.80 |
| 1 year old, 4 to 6 feet..... | .20         | 2.00   |
| 2 year old, branched.....    | .25         | 2.50   |
| Selected 2 to 3 year .....   | .30c to .40 |        |

Write for low prices by the 100 or 1000.

#### SUMMER VARIETIES

- \*Red Astrachan.
- \*Yellow Transparent.
- Golden Sweet.

#### AUTUMN VARIETIES

- \*Gravenstein.
- King of Tomkins County.
- Wealthy.

#### WINTER VARIETIES

- \*Baldwin.
- Gano.
- Delicious.
- Northern Spy.
- Ortley (White Bellflower).
- \*Spitzenberg.
- Winter Banana.
- Yellow Newtown Pippin.
- Arkansas Black.
- Grimes' Golden.
- Golden Russet.
- \*Jonathan.
- Mammoth Black Twig.
- Rhode Island Greening.
- \*Rome Beauty.
- Tolman's Sweet.
- Winesap.

### Crab Apples

|                            | Each, 50c and 60c |
|----------------------------|-------------------|
| Prices the same as apples. |                   |
| Gibbs.                     |                   |
| Transcendent.              |                   |
| Yellow Siberian.           |                   |
| Florence.                  |                   |
| Hysop.                     |                   |

Harrisburg, Ore., Oct. 15, 1914.

Routledge Seed & Floral Co.

Gentlemen: I got a collection of your Giant Spencer Sweet Pea Seed last year, and they were simply great, blooming for three months steady. They were twelve feet high and best in the country. This is a picture of same.

Yours respectfully,

MRS. S. F. McKELLIP.

### Cherries

|                              | Each.        | Doz.   |
|------------------------------|--------------|--------|
| 1 year old, 3 to 4 feet..... | \$.25        | \$2.50 |
| 1 year old, 4 to 6 feet..... | .35          | 3.50   |
| 2 year old, branched.....    | .50          | 5.00   |
| Selected 2 to 3 year.....    | .75c to 1.00 |        |

Write for our low prices by 100 or 1000.

- Bing.
- Kentish (Early Richmond).
- Late Duke.
- Lambert.
- May Duke.
- Montmorency.
- New Giant.
- Miller's Late.
- Royal Ann (Napoleon Bigarreau).

Ashland, Ore., Nov. 28, 1913.

Routledge Seed & Floral Co.

Gentlemen: I am writing to thank you kindly for making my tree order right. I received the tree yesterday and it is a beauty. There is no other like it in Ashland.

Respectfully,

MRS. S. J. IRWIN.

Route No. 2, Molalla, Ore., Nov., 1913.

Routledge Seed & Floral Co.

Gentlemen: The trees that you sent me were extra fine and they were so nicely packed. Please send me a few order sheets for I aim to send in a spring order. Thanking you for your care in filling my order,

Yours truly,

IRA L. BOYER.

**\*DWARF APPLE TREES.**—These produce just as large fruit as the standards, but the trees do not grow as large, therefore are very desirable for the planter who has limited space. We can furnish in **Dwarf Stock** all varieties preceded by a "\*" at **40c each; \$4.00 per dozen**.

**NOTE.**—It is not practical to send fruit trees by mail on account of the length of them and the large spreading roots, but we prepay express or freight on \$5.00 orders. (See inside front cover.)

## Peaches

|                              | Each.   | Doz.   |
|------------------------------|---------|--------|
| 1 year old, 3 to 4 feet..... | \$ .18  | \$1.80 |
| 1 year old, 4 to 6 feet..... | .20     | 2.00   |
| 2 year old, branched.....    | .25     | 2.50   |
| Selected 2 year old.....     | .35c to | .50    |

Write for our low prices by 100 or 1000.

|                  |               |
|------------------|---------------|
| Alberta.         | Hale's Early. |
| Early Charlotte. | Late Crawford |
| Early Crawford.  | Muir.         |
| Golden Cling.    | Salway.       |

November 6, 1914.

**Routledge Seed & Floral Co.**  
Gentlemen: The Giant Half Sugar Mangel is the best I ever had and the heaviest cropping mangel I ever had on the farm.  
Very truly yours,  
VICTOR DE GANCK.

Newport, Ore., Oct. 29, 1914.

**Routledge Seed & Floral Co.**  
Gentlemen: My Sweet Peas were very much admired here at the Life Saving Station last year, and I told everyone they came from your place and gave many your address. I felt sure you would like to know this.  
Yours truly,  
MRS. C. D. STUART.

## Apricots

| Unless otherwise priced.     | Each.  | Doz.   |
|------------------------------|--------|--------|
| 1 year old, 4 to 6 feet..... | .30    | 3.00   |
| 2 year old .....             | \$ .35 | \$3.50 |
| Selected .....               | .50    |        |

|           |                                |         |
|-----------|--------------------------------|---------|
| Moorpark. | Royal.                         | Tilton. |
| Lewis.    | Price 1 year, 60c; 2 year, 75c |         |

**Routledge Seed & Floral Co.**  
Dear Sirs: Received your recent shipment and would say it came in good condition and tree appears to be in fine shape. Many thanks for considerations. When I am ready to put in more trees and shrubs will send order to your firm.  
Very respectfully,  
H. D. STEELE.

## Pears

| Unless otherwise priced.     | Each.   | Doz.   |
|------------------------------|---------|--------|
| 1 year old, 3 to 4 feet..... | \$ .25  | \$2.50 |
| 1 year old, 4 to 6 feet..... | .30     | 3.00   |
| 2 year, branched .....       | .40     | 4.00   |
| Selected 2 year .....        | .50c to | .75    |

Write for our low prices by 100 or 1000.

### SUMMER VARIETIES

- \*Bartlett.
- Clapp's Favorite.
- Seckel.

### AUTUMN AND WINTER VARIETIES

- \*Beurre D'Anjou.
- Beurre Clairgeau.
- \*Flemish Beauty.
- \*Comice.
- \*Fall Butter.
- Winter Bartlett.
- Winter Nellis.

Bellingham, Wash., July 14, 1914.

**Routledge Seed & Floral Co.**  
Gentlemen: I received some Rose Bushes from your house last fall and was so well pleased with them that I will make another selection.

Yours truly,  
PETER WESTMAN,

**\*DWARF PEAR TREES**—These produce just as large fruit as the standards, but the trees do not grow as large, therefore are very desirable for the planter who has limited space. We can furnish in **Dwarf Stock** all varieties preceded by a "\*" at 40c each; \$400 per dozen.

**Spray Pumps**.—Every fruitgrower needs a Spray Pump. We have an excellent line that we'll guarantee to give satisfaction. See pages 96 to 103.

## Prunes

|                              | Each.   | Doz.   |
|------------------------------|---------|--------|
| 1 year old, 4 to 6 feet..... | \$ .20  | \$2.00 |
| 2 year old, branched.....    | .25     | 2.50   |
| Selected 2 year old.....     | .35c to | .50    |

Write for our low prices by 100 or 1000.

|            |                  |
|------------|------------------|
| Giant.     | Sugar.           |
| Hungarian. | Petite (French). |
| Italian.   |                  |

Berkley, Cal., March 5, 1914.

**Routledge Seed & Floral Co.**  
Gentlemen: I am just in receipt of a letter from our superintendent from the ranch at Hollister saying that the second consignment of Apple trees had arrived and were all right. Please accept my thanks for your kindness in this matter. If you will send me your bill I will pay it, for I do not see that you are to blame.

Yours very truly,  
SAMUEL B. WELCH.

## Plums

| Unless otherwise priced.     | Each.   | Doz.   |
|------------------------------|---------|--------|
| 1 year old, 3 to 4 feet..... | \$ .20  | \$2.00 |
| 1 year old, 4 to 6 feet..... | .25     | 2.50   |
| 2 year old, branched.....    | .30     | 3.00   |
| Selected, 2 to 3 years.....  | .35c to | .50    |

Write for our low prices by 100 or 1000.

|                    |                              |
|--------------------|------------------------------|
| Burbank.           | Green Gage.                  |
| Coe's Golden Drop. | Peach.                       |
| Columbia.          | Yellow Egg.                  |
| Damson.            | Satsume (Blood Plum)         |
| Maynard.           | Price, 75c; selected, \$1.00 |

## Quince

|                                          | Each.                    |
|------------------------------------------|--------------------------|
| 1 year old .....                         | .30c to \$ .40           |
| 2 year old, branched.....                | .50                      |
| Extra select .....                       | .60c to .75              |
| Champion. Very profitable and desirable. |                          |
| Pineapple.                               | 1 year, 50c; 2 year, 75c |

## Nectarines

Prices, 4 to 6 feet, each 40c; doz., \$4.00.

**BOSTON**.—Large, deep yellow, bright blush; flesh yellow; very rich and luscious. Best for Oregon. August.

**EARLY VIOLET**.—Medium; skin pale, shaded violet; flesh white; good. July.

## Almonds

Almonds can be grown successfully in most sections of Oregon and Washington, and are attracting much attention from commercial orchardists.

Select trees, 4 to 6 feet... **Each 50c to 60c**

**I. X. L.**—A vigorous grower and sure cropper, producing nuts of large size and handsome appearance; shell thin; most popular commercial sort.

**HARD SHELL**.—A fine, hardy variety, with large, plump kernel of good quality.

## Persimmons

These are perfectly hardy and do well here. We can supply the American or larger Japanese varieties. **Price, 4 feet, 50c each**



## FRUIT TREES AND BUSHES—Continued

## Blackberries

**LAWTON.**—The favorite market variety; large, good quality, uniform, hangs long on vine when ripe, productive and profitable; the most generally planted for commercial markets in the Pacific Northwest. Oregon's most popular kind.

**One year,** 8c each; doz. 75c.; 100, \$5.00.  
**Select,** 10c each; \$1.00 doz.; \$6.00 100.

**ELDORADO.**—New; very vigorous and hardy; yield is enormous; berries large, jet black, borne in large clusters, and ripen well together; sweet, melting and pleasing to the taste; no core, and keep eight or ten days after picking with quality unimpaired.

**Select,** 15c each; \$1.50 per 12; \$8.00 per 100; **1 year,** \$6.00 100.

**BLOWERS.**—A new variety of merit, same price as Eldorado.

**EVERGREEN.**—Berries long, black, sweet, rich and delicious; ripens from July to November.

**Select,** each, 15c; dozen, \$1.50; 100, \$10.00;  
**1 year,** \$7.50 100.

**HIMALAYA GIANT.**—A new grand variety; an exceedingly strong, rampant grower of a trailing nature; a heavy cropper; the berries are large, juicy, coreless, sweet and firm, with a delicious aromatic flavor.

**Select,** 15c each; \$1.50 per 12; \$10.00 per 100; **1 year,** \$8.00 100.

## NEW MAMMOTH BLACKBERRY

Rampant grower, of trailing habit; enormously productive and early. Fruit extra long; fine table berry; poor shipper.

**Prices Select,** 2 years old, 15c each; \$1.50 per 12; \$8.00 per 100, prepaid. Low price per 1000.

## BURBANK'S PHENOMENAL

A most desirable, refreshing berry for the home garden. Of a bright crimson raspberry color; very productive, and most delicious of all berries for pies, canning, jellies or jams. Sweeter than the Loganberry and fine as a fresh table fruit.

**Prices Select,** 2 years old, 15c each; \$1.50 per 12; \$10.00 per 100, prepaid. Low price per 1000.

## LOGANBERRY

In great demand. An exceedingly strong grower and an enormous bearer. The fruit is large and long and produced in immense clusters. Color, dark red. Has a pleasant, vinous flavor. Fruit ripens early. It is excellent for the table, and for jelly or jam is without an equal.

**Prices: Select,** 2 year old, 15c each; \$1.50 per dozen; \$8.00 per 100, prepaid. Low price for 1000.

**Note.**—Our 2-year-old Logan-Phenomenal and Mn. Blackberry plants are transplanted tips, grown one year in nursery row and all will live. They are cheaper than "tips" at any price, which will not ship safely.

At above prices we prepay charges. We employ **NO AGENTS.** Send your orders direct to us. Read inside front cover.

You must feed your plants and trees if you want to get the best and most profitable crops. Read about "Wonder" odorless fertilizer which we can send by Parcel Post if you wish. See page 30.



Lawton

## Dewberry

**LUCRETIA.**—A trailing variety of the blackberry; fruit sweet and luscious.

**Selected,** each, 15c; per 12, \$1.50; \$5.00 per 100; **1 year,** \$4.00 100, prepaid.

## Currants

|                             | Each.  | 12     | 100    |
|-----------------------------|--------|--------|--------|
| 1 year old .....            | \$ .10 | \$1.00 | \$5.00 |
| 2 year old .....            | .15    | 1.50   | 6.00   |
| Extra large selected bushes | .25    | 2.50   |        |

Low prices by the thousand.

**BLACK NAPLES.**—Very large, black.

**CHERRY.**—Large, deep red; rather acid; fine for preserving; valuable market variety.

**FAY'S PROLIFIC.**—A new Currant, larger than the Cherry; has less acid, and is more prolific.

**WHITE GRAPE.**—Large, yellowish-white, valuable for the table; the finest of the white sorts.

**PERFECTION.**—New; introduction of great merit. Our grower says: "You cannot say too much about the good qualities of this grand new sort." So, whether you plant ten or a hundred, plant a good proportion of Perfections, which is the largest, most productive, finest-flavored (rich, mild, sub-acid; plenty of pulp; few seeds), healthy, bright red currant to date.

| Prices.      | Each.  | Doz.   | 100    |
|--------------|--------|--------|--------|
| 1 year ..... | \$ .15 | \$1.50 | \$6.00 |
| 2 year ..... | .20    | 2.00   | 8.00   |



### Gooseberries

**OREGON CHAMPION.**—Berries large, round and pale green; fine for table use and pies; hardy, strong, and a very prolific bearer; most popular and best commercial variety.

Write for our low price per 1000.

|                           | Each. | Doz.  | 100    |
|---------------------------|-------|-------|--------|
| 1 year old .....          | \$.08 | \$.75 | \$5.00 |
| 2 year old, branched..... | .10   | 1.00  | 8.00   |
| Extra selected .....      | .15   | 1.50  |        |

**RED JACKET (Josselyn).**—Of large size, smooth, prolific and hardy; of best quality; a wonderful cropper, with bright, clean, healthy foliage.

Prices, 1 year, each, 20c; doz., \$2.00; 2 year, each, 25c; doz., \$2.50.

**INDUSTRY.**—English variety; large oval; dark red, hairy, rich and agreeable; vigorous and productive.

Prices, 1 year, each, 25c; doz., \$2.50; 2 year, each, 30c; doz., \$3.00.

### Raspberries

| Unless otherwise priced. | Each. | Doz.  | 100    |
|--------------------------|-------|-------|--------|
| 1 year .....             | \$.08 | \$.75 | \$4.00 |
| Extra strong .....       | .10   | 1.00  | 6.00   |

#### Red Varieties

**CUTHBERT.**—Berries very large, deep, rich crimson; good for shipping; the most popular of all raspberries; stands the sun and heat well.

**MARLBORO.**—Very large and early; beautiful bright scarlet; good quality; hardy and productive.

**ST. REGIS (New).**—The St. Regis everbearing red raspberry is the sensation of the day. It is being talked about from the Atlantic to the Pacific. The demand is enormous. It is a very valuable variety. It originated in New Jersey among a colony of Italians who made money by selling the fruit to hotels and restaurants late in the fall after all other kinds of berries were gone. It is a fine berry in every respect, being hardy, very productive, of good color and fine flavor. It does finely in the regular season and you get the fall crop extra. We unhesitatingly recommend this variety.

Price, each, 15c; doz., \$1.50; per 100, \$10.00, prepaid.

**SUPERLATIVE (New).**—The berry is large and firm, with very small, brittle seeds; color, soft crimson. The healthy, vigorous growth, remarkable productiveness, hardness, immense size, handsome, uniform shape and rich, luscious flavor makes the "Superlative" peerless among raspberries. Nearly a week earlier than the Cuthbert.

Price, extra strong, each, 15c; doz. \$1.50; per 100, \$8.00; 1 year, \$6.00, prepaid.



#### Black Varieties

**GREGG.**—For many years the leading standard best known market sort. Very productive, large size, firm, meaty berries, covered with heavy bloom.

**CUMBERLAND.**—A healthy, vigorous grower, producing immense crops of magnificent berries; fruit very large, firm and excellent quality; keeps and ships well; most profitable mid-season variety.

**CONRATH.**—Early blackcap and of superior quality; 10 days earlier than Gregg, coming in with the earliest reds. A most desirable and profitable new sort.

Price, extra strong, each, 15c; doz., \$1.50; per 100, \$8.00; 1 year, \$6.00, prepaid.

Every Home Garden Should Have a Few Small Fruit Bushes or Vines.

## FRUIT TREES AND BUSHES—Continued

### Grapes

| Unless otherwise priced         | Each       | 12     | 100     |
|---------------------------------|------------|--------|---------|
| One year old .....              | \$.15      | \$1.50 | \$ 8.00 |
| Two year old .....              | .20        | 2.00   | 10.00   |
| Extra large and strong roots... | .25 to .35 |        |         |

**McKINLEY.**—A new early white grape of great merit; fruit large and sweet; no puckery taste in the skin; hardy and productive.

**Price 1 year, 25c; 2 year, 35c**

**McPIKE.**—New; earlier than Concord; large, blue-black, of superb quality.

**Price 1 year, 25c; 2 year, 35c**

**CAMPBELL'S EARLY.**—Large and handsome, blue-black, flesh firm but tender, few seeds; rich flavor; excellent for shipping or home use.

**Price 1 year, 25c; 2 year, 35c**

**CONCORD.**—Large, black; very popular.

**DELAWARE.**—Best of our native grapes; ripens early; berries small, light red.

**MOORE'S EARLY.**—Large, resembling Concord; more pulp, and is earlier.

**NIAGARA.**—Large; flesh tender and sweet; one of the best white grapes.

**WORDEN.**—Bunch very large and compact; berry large, black; an improved Concord.



## STRAWBERRY PLANTS

Our strawberries are carefully grown, trimmed and packed in the best manner to insure their arrival in good, fresh condition. If you want good, strong, healthy, vigorous plants and true to name, send to us. Our prices are right; our plants are O. K.

Marshall  
Strawberries  
from Photograph

Note.—Plants can be shipped any time from November 1 to late spring.



**GOODELL.**—A comparatively new berry, but of great merit. Everyone who has tested it praises its good qualities. In account of the size, color and fine appearances the GOODELL will always bring fancy prices on any market.

Every strawberry grower, whether he grows for home or market, should plant this superb new variety that is so highly recommended by all. In flavor the GOODELL is unsurpassed; the berry is large, fine shape and solid red to the center. A most productive variety; not out-yielded by any (See prices next page.)

**MARSHALL.**—One of our best Western varieties and very popular wherever known. In California it has been very extensively planted in recent years, and in Oregon it has the distinction of topping the Portland market in three successive seasons. Marshall is one of the blood-red varieties that never fails to attract the eye and to satisfy the taste. It is deliciously sweet, generously prolific, and is in every way an ideal variety for extensive planting or home garden. Excellent for canning, as it holds its color, shape and flavor. (See price next page.)

**DON'T** be misled by the fine catalogs sent out from the East. Buy Western grown plants and Western varieties, better berries than ever grew in the East. You know it!

## Strawberries—Continued

Forest Grove, Ore.,  
 Routledge Seed & Floral Co.  
 Gentlemen: Your shipment of Strawberry plants at hand some time ago in good shape. I thank you for keeping your word in such a small affair; not so much for value of plants, but that you are men who can be depended upon.

Yours truly,  
 WILLIAM ROBB.

Molalla, Ore.,  
 Routledge Seed & Floral Co.  
 Gentlemen: The trees which you sent me was extra fine, and they were so nicely packed. Please send me a few order sheets, for I aim to send in a spring order. Thanking you for your care in filling my order,  
 Yours truly,  
 IRA L. BOYER,

**GOLD DOLLAR.**—One of the earliest berries on the market. Fruit good, medium size and attractive; rather tart; fine flavor; foliage heavy, large and spreading, which protects the blooms from early frosts.

**OREGON IMPROVED.**—This is one of the finest and most satisfactory strawberries ever introduced. It always looks bright, fresh and attractive. The berry is very large, firm and handsome; rich, dark red, extending to the center; the flavor is rich, sweet and delicious. For table use and canning, it cannot be equaled. The "Oregon" ripens very early and continues in

bearing until late in the season, a good second crop coming on about October. Very prolific and a heavy cropper.

**MAGOON.**—Berry large, fine and excellent; sub-acid flavor; bears heavily and throughout the season.

**CLARK'S SEEDLING.**—The berry that has made Hood River famous; excellent shipper; berries large, firm and of delicious flavor; vines bear large crops; is especially adapted to dry soil.

**WILSON.**—A heavy bearer of fine, moderate-sized berries; sharp acid flavor; leading sort for canning.

| Variety.                    | Prices— Per 25 | Charges Prepaid. |        | Not Prepaid. |        |        |
|-----------------------------|----------------|------------------|--------|--------------|--------|--------|
|                             |                | 100              | 1000   | 25           | 100    | 1000   |
| Clark's Seedling .....      | \$0.40         | \$0.75           | \$5.00 | \$0.30       | \$0.60 | \$4.50 |
| Gold Dollar .....           | .40            | .75              | 5.00   | .30          | .60    | 4.50   |
| Goodell .....               | .60            | 1.00             | 7.50   | .50          | .85    | 7.00   |
| Magoon .....                | .40            | .75              | 5.00   | .30          | .60    | 4.50   |
| Marshall .....              | .40            | .75              | 5.00   | .30          | .60    | 4.50   |
| New Oregon (Improved) ..... | .40            | .75              | 5.00   | .30          | .60    | 4.50   |
| Wilson .....                | .40            | .75              | 5.00   | .30          | .60    | 4.50   |

Note.—Not less than 25 plants of a kind sold.

All our strawberry plants packed in special strawberry crates holding 500 plants each. Not less than 500 plants of a kind at 1000 rate. Special low prices on 5000 or more. Write, stating quantity and kind wanted.

### Asparagus Roots

One of the earliest and finest of spring vegetables; very easily grown. A bed once planted is good for years if properly attended to and well manured. Set plants 18 inches apart, in beds 5 feet wide and as long as necessary. Spread out the roots and cover crowns 3 inches.

Buy roots and save two to three years.

#### ONE YEAR OLD

Prepaid, dozen, 25c; 50, 75c; 100, \$1.00.  
 By express or freight, 1000, \$6.00.

#### TWO YEAR OLD

Prepaid, dozen, 40c; 50, \$1.00; 100, \$1.25.  
 By express or freight, 1000, \$8.00

### Hop Vines

Regular Root Cuttings, price, 5c each; 40c per dozen; \$1.20 per 100. Low prices by the thousand.

Crown Roots give quicker results; each, 10c; dozen, \$1.00.

### Horse-Radish Roots

This useful condiment is easily grown, and prefers a rich, moist loam. Plant in rows 24 inches apart, putting the sets 18 inches apart, being careful to place the small end of root down.

Prices, 5c each; 40c per dozen; \$1.50 per 100. Low prices by the thousand.

### Rhubarb or Pie Plant Roots

(WINE PLANT)

Set roots 3 feet apart in rows 4 feet apart. In the richest ground you have or can prepare.

#### MAMMOTH OR GIANT

1 year old roots, prepaid, each, 10c; dozen, 75c; 100, \$4.00.

2 year old roots, prepaid, each, 15c; dozen, \$1.25; 100, \$6.00. If wanted in larger quantities, write for special prices.

#### BURBANK'S CRIMSON WINTER

Very early, prolific, vigorous. This new variety has created a great sensation and proved to be very valuable, especially in California. We believe it will grow anywhere equally as good as the common sorts, but to obtain its highest state of perfection and yield it should be planted in a warm location. The stalks are of medium size, a brilliant crimson, and of the very best quality. If kept moist, it will produce stalks abundantly at any season. It is, in fact, absolutely perpetual.

Price, small roots, prepaid, each, 20c; dozen, \$2.00; large roots each, 25c; dozen, \$2.50.

### Chives (Schnittlauch)

Belongs to the onion family. The tender, green tops are used for salads or dressing. Price, per clump, 15c and 25c; dozen, \$1.50 and \$2.00.

### Do You Feed Your Growing Crops as You Do Your Stock?

Or are you actually starving your fruit, grain, vegetables, or whatever it may be, just because it never has occurred to you in this light before?

Our High-grade Fertilizers supply the necessary plant foods. They will increase your crops and double the money invested. See pages 30-31.

## SHADE, NUT AND ORNAMENTAL TREES AND SHRUBS

**HARDY FLOWERING SHRUBS.**—There is nothing which so quickly, and for so little cost, adds so much to the beauty, cheerfulness and homelike appearance of a place as an assortment of hardy shrubs. They are permanent improvements, which increase in size, value and beauty year after year.

**IMPORTANT NOTICE.**—We no longer send out traveling salesmen or agents. If you want our "High Quality" stocks order direct from us and we will prepay charges—see inside front cover and page 1.

### For Your Guidance

To make it more convenient for the average person to find certain stocks, we will list in alphabetical order all Shade, Nut and Ornamental Trees and Shrubs (climbing plants excepted), and use the following letters after the name to classify them.

**D**—Deciduous—Trees and Shrubs that drop their foliage in fall and winter  
**E**—Evergreens—These retain their foliage year around.

**ACEB.**—See Maples.

**ACUBA (E).**

**Japonica.**—Beautiful, broad leaved evergreen, with leaves speckled and striped golden yellow; elegant shrub for specimen on the lawn or for planting among other shrubbery; bears bright red berries in winter time.

1½ to 2 feet, \$1.25 to \$3.00

**ALMOND (D) (Flowering).**—Beautiful shrub, bearing in May, before the leaves appear, double, rose-like flowers.

**Double Red or White.**—3 or 4 feet.

Each 50c to 75c

**ALTHEA (D)—Rose of Sharon.**—These beautiful shrubs bloom very freely in August and September, when few other shrubs are in bloom, and being easily cared for, are worthy of a place in every garden. Our collection comprises double varieties. **Purple, Pink and White.** Each 35c, 50c and 75c.



Althea (Rose of Sharon) Flower.

**ARBOR VITAE (E) (Thuja).**

**Pyramidal.**—A most valuable upright evergreen of dense, compact habit.

1½ feet and up, each \$1.00 to \$3.50

**Chinese Golden.**—A low, compact shrub of a beautiful golden yellow.

1 foot up, \$1.00 to \$3.00

**ARAUCARIA, IMBRICATA (E).**

**Chile Pine, or Monkey Tree.**—Very rare and beautiful, pointed, needle-like leaves, 1½ feet up, \$2.00 to \$2.50; specimens \$3.00 to \$5.00.

**Araucaria Excelsa.**—See Palms and Plants.

**AZALEA (E).**

**Mollis.**—The most gorgeous of all hardy shrubs. The blossoms, which vary in color from intense crimson to lemon yellow, are borne in greatest profusion in early spring, before the leaves appear. It makes a compact, symmetrical shrub.

**Budded.**—Select varieties in Yellow, Orange or Red, each, \$1.50 to \$2.00; **Seedlings**, assorted, 75c to \$1.50.

**AZALEA (E).**

**A. Crimson.**—A hardy evergreen species. These are dwarf, compact growers. Foliage small; flowers dazzling crimson.

Each, \$1.25 to \$1.50

**BAMBOO (E).**—A very ornamental Oriental plant. We import a fine collection of Bamboo from Japan.

Small plants, each, 35c to 50c; larger plants, each, 75c to \$1.50.

**BERBERIS (D) (Barberry).**—The Barberry is an interesting family of shrubs, varying in size from 3 to 6 feet and having graceful, feathery foliage. Its showy flowers in early summer are succeeded by bright-colored fruit, which is very conspicuous in autumn and early winter.

**Thunbergii.**—A beautiful Japan variety of dwarf habit. Small foliage, changing to beautiful red in autumn. Very desirable for grouping.

Each 35c, 50c and 75c

**Vulgaris (Common European).**—Yellow flowers in drooping racemes in early summer, followed in autumn by orange-scarlet fruit. Each 35c, 50c and 75c

**Vulgaris Purpurea (Purple).**—Violet-colored foliage and fruit; rich-looking and very effective when contrasted with plants of lighter foliage.

Each 35c, 50c and 75c

**BIRCH (D)—Betula.**—Remarkable for its elegance; very graceful with its silvery bark and slender branches.

**European White.**—6 to 8 feet, each 75c; 8 to 10 feet, each \$1.00 to \$1.50.

**OUR CATALOG OF NURSERY STOCK** is more complete and descriptive. Free on request. If there is some particular stock you want, write. We can probably supply it.

**BIRCH—Continued.**

**Weeping Cut-Leaved** (*alba lancinata pendula*).—Charming tree. Its tall, slender yet vigorous growth, gracefully drooping branches, silvery-white bark and delicately cut foliage present a combination of attractive characteristics rarely met with in one tree. 5 to 6 feet, each \$1.00; 8 to 10 feet, \$1.50 to \$2.50.

**BOXWOOD.—See Nursery Catalog.**

**CAMELLIA (E).**—Beautiful for the house or garden; evergreen foliage; wax-like flowers which appear about Christmas indoors or early spring outside.

**Japonica, Double White, Pink or Red.**  
1½ to 2 feet, each \$1.00 to \$1.50

**CATALPA (D).**—A beautiful shade tree. White flowers in July.

**Speciosa.**  
4 to 5 feet, each 60c; 7 to 9 feet 75c to \$1.00

**CEDAR (E)—Cedrus.**

**Atlantica.**—One of the most beautiful evergreens. Upright growth, but low-branched and of compact habit. Foliage light green. Each \$1.00 to \$3.00

**Deodora (Deodar or Indian Cedar).**—Of vigorous growth; pyramidal form; graceful foliage of a light, silvery or glaucous green. One of the most beautiful of evergreens.

Each, 1½ to 2 feet, \$1.50; 2½ to 3 feet, \$2.50 to \$3.00; specimens, \$3.50 to \$5.00

**Aurea.**—Graceful foliage of light golden yellow on the young shoots.  
Each \$1.50 to \$3.00

**CHESTNUT (D).**—Very popular, stately shade trees. Extensively planted for shade.

**American Sweet.**  
6 to 8 feet, each \$1.00 to \$1.50

**Spanish.**  
4 to 6 feet, each \$1.00; 7 to 8 feet \$1.50

**Mammoth Japanese.**—Large, good edible nuts.  
4 to 6 feet, each 75c to \$1.00; 6 to 8 feet \$1.50

**Horse, European, Red Flowering.**—Much slower grower than the white.  
3 to 4 feet, each 60c to 75c; 6 to 8 feet \$1.25 to \$2.00.

**Horse, White Flowering.**  
4 to 5 feet, each 60c to 75c; 6 to 8 feet \$1.00 to \$1.50; 9 to 10 feet, specimens, \$1.50 to \$2.00

**CLETHRA (D)—Sweet Pepper Bush.**

**Alnifolia (Sweet Pepper Bush).**—An upright, slow-growing shrub, with spikes of fragrant white flowers in midsummer, which continue for a long time. Useful for massing, for natural planting or woods, or for the beauty of the single specimen.

Each 35c, 50c and 75c

**COTONEASTER.**—Choice evergreen with minute, deep glossy, green foliage and red berries.

**Horizontalis (E).**—A plant of prostrate habit of growth, admirable for covering low walls, or to use in rock work.  
Choice plants, each 60c, 75c, \$1.00 and up

**Simondsii (D).**—A beautiful upright shrub, with fruit of a rich, deep orange color.  
Each 35c, 50c and 75c

**CYPRESS (E).**

**Lawson's.**—Hardy, graceful, rapid growing evergreen, with feathery bluish-green foliage.

Specimen plants (See cut. 75c to \$2.50 and up

For Hedges.—Small plants 10 to 12 inches and up; write for prices.

**DAPHNE (E).**—Superb evergreen shrub of compact growth, bearing in early summer many blush white flowers, highly perfumed, and very lasting. The sweetest-scented shrub in existence. Hardy only west of the Cascades.  
**White or Pink.** Each \$1.00 to \$1.50

**DEUTZIAS (D).**—We are indebted to Japan for this valuable genus of plants. Their hardihood, fine habit, luxuriant foliage, and profusion of attractive flowers, render them among the most beautiful and deservedly the most popular of flowering shrubs at the present time. The flowers are produced in May and June in racemes 4 to 6 inches long.

**Crenata Fl. Pl.**—Grows 4 to 6 feet tall. Flowers very dainty and pretty; white, tinged rose; very double and full.  
Each 35c, 50c and 75c

**Gracillis.**—Low-growing, compact; covered all over with pure white, bell-shaped flowers.  
Each 35c, 50c and 75c

**Lemoinei.**—Flowers very large and produced in broad-based, cone-shaped heads of from 20 to 30 flowers each, of purest white.  
Each 35c, 50c and 75c

**Pride of Rochester.**—Flowers very double and full; pure white, tinged with blush; great profusion.  
Each 35c to 60c



Deutzia Gracillis.

**DOGWOOD (D)—Cornus.**

**Oregon (Cornus Nuttalla).**—One of the handsomest of our native trees. A fine ornamental tree with large white flowers.  
Each 60c to \$1.00

**SHRUB DOGWOODS.**—These are most desirable on account of their variegated foliage or the highly colored bark of the twigs and branches.

**Sibirica (Red Siberian Dogwood).**—A rare and remarkable variety, with bright red bark in winter.  
Each 35c, 50c and 75c

**Spathi (Gold-leaved Dogwood).**  
Each 35c, 50c and 75c

**OUR PRICES** are for large field-grown shrubs—not small one-year cuttings or greenhouse plants. They are worth all we ask. Don't compare our prices with the cheap Eastern mail order houses. **REMEMBER "E"** Evergreens cannot be sent by mail. See notes inside front cover and page 1.

**ELDER (D)**—*Sambucus*.—These are showy, large shrubs, ornamental in flower, fruit and foliage. Of easy cultivation.

**Canadensis (Common Elder)**.—Broad heads of white flowers in June, and dark red berries in autumn.

Each 35c, 60c and 75c  
**Cut-Leaved (laciniata)**.—A very beautiful variety. Foliage curiously divided.

Each 35c, 50c and 75c  
**Golden-Leaved (foliis aureis)**.—It has beautiful fern-like golden foliage, which retains its showy bright yellow color through the entire summer until late autumn.

Each 35c, 50c and 75c

**ELM (D)**.—One of most popular and best shade trees. Very desirable for street planting.

**American White and Cork Bark.**

6 to 7 feet, each 75c; 8 to 10 feet \$1.00 to \$1.50

**Weeping Elm (Camperdown)**.—One of the most beautiful and remarkable of weeping trees; low growing, branches extending horizontally. Priced according to size of head.

Each \$1.50 to \$2.50

#### EUONYMOUS.

**Aurea Variegata**.—Leaves variegated green and gold. A very striking plant.

\$1.50 to \$2.00

**Europaeus (D) (Spindle Tree—Burning Bush)**.—A large shrub or tree, bearing rose-colored fruit in autumn; fine; 3 to 4 feet.

Each 60c to 75c

**Eadicans (Trailing) (E)**.—Very hardy, dense-growing; useful for covering old walls, etc., as it is self-clinging.

Each 50c to 75c

**FILBERTS (D)**.—These nuts do well on this Coast. We can supply Barcelona, Du-Chilly, the most popular sorts.

2 to 3 feet each 35c to 50c; per 10, \$4.00; 100, \$35

**Corylus Purple Filbert**.—Large bush, with large, dark purple leaves; makes a very effective contrast when planted among green-foliaged plants.

2 to 3 feet each \$1.00

**FLOWERING CURRANT (D)**—*Rebis*.—The

Flowering Currants are gay, beautiful shrubs in early spring, and of the easiest culture.

**Sanguineum**.—Charming crimson flowers in early spring; fine variety.

Each 35c, 50c and 60c

**Aureum**.—Beautiful yellow flowers; very fragrant, smooth, shining foliage.

Each 35c, 50c and 60c

**FORSYTHIA (D) Golden Bells.**

**Viridissima**.—Blooms early in spring, before the leaves appear, when it is covered with golden, bell-like flowers.

Each 50c to 60c

**Suspensa (Weeping Golden Bell)**.—Somewhat pendulous in habit.

Each 50c to 60c

**GEINSTA (E) Broom Bush.**

**Scoparia (Scotch Broom)**.—Rapid growing, hardy bushy shrub; producing trusses of yellow flowers in May.

Each 25c to 50c

**Juncea (Spanish)**.—New yellow variety, blooms all summer.

Each 35c to 60c

**Alba**.—A new early flowering white variety of good habit; very attractive.

Each 25c to 50c

**Andreana**.—Deep yellow and red. Very pretty; rare.

Each 25c to 50c

**HAWTHORNE (D)**—A beautiful flowering shrub that grows to be a fair-sized tree; very desirable; fine foliage.

**Paul's Scarlet**.—Double scarlet, very rich.

Each 75c to \$2.00

**Double White or Red.**

3 to 4 feet 60c; 6 to 8 feet \$1.00 to \$1.50

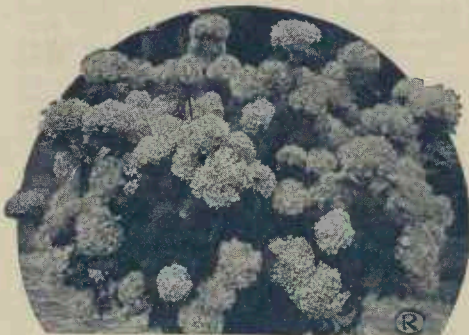
**Single White**.—For hedge plants. Write.

**HOLLY (E)**—*Ilex*.—Beautiful small specimen tree for lawn planting. Attractive all the year because of their broad, glossy, prickly leaves, but most beautiful from November to April, when laden with bright scarlet berries.

**English (Aquifolia)**.—Berry-bearing plants, per foot, \$1.00; nice plants, \$1.50 to \$2.50; specimens, \$3.50 to \$7.50; seedling stock, per foot 60c; nice plants, \$1.50 to \$3.00; small plants, 4 to 8 inches, for large plantings, very cheap. Write.

**Gold or Silver Margined.**

\$1.50 to \$3.00 and up



**Hydrangea Hortensia**

**HYDRANGEA HORTENSIA (D)**.—A handsome half-hardy Japanese shrub; most frequently seen in tubs and pots, and does well in somewhat sheltered place. Ornamental foliage and beautiful flowers in large trusses. (See cut below.)

**Hortensia Blue**.—Large flowers; clear blue. Very popular.

60c to \$1.00. Specimens, \$1.50 to \$2.00

**Hortensia White**.—Pure white; large flower.

60c to \$1.00. Specimen, \$1.50 to \$2.00

**Hortensia Pink**.—A beautiful new pink from Japan. Large, free flowering.

Each 50c, 75c and \$1.00; extra large \$1.50 to \$2.00

**Schizophragma (Climbing Hydrangea)**.—(See Climbers), page 97.

**Paniculata Grandiflora**.—The grandest as well as the most popular, of all shrubs, and hundreds of thousands of them are sold every year; excellent for hedges or massing; unsurpassed for the lawn; blooms in July and August, and continues in bloom for two or three months. The flowers are massive, cone-shaped, sometimes 10 inches in length, and changing from the original pure white to pink, and finally to a beautiful rich coppery red. (See cut opposite page.)

Strong plants 35c each; \$3.00 dozen; 2 to 3 feet, 40c to 60c; 3 to 4 feet, 75c

**Tree Shaped**.—About 4 feet. Each \$1.00

**IMPORTANT NOTICE**.—We no longer send out traveling salesmen or agents. If you want our "High Quality" stocks order direct from us and we will **PREPAY CHARGES**—see inside front cover, and page 1. Illustrated Bulb and Nursery Catalog—Free.

**JUNIPER (E).**—Very desirable evergreens for the lawn; generally grown in pyramidal form; foliage fine and beautiful.

**Irish, Swedish and English.**  
2 to 3 feet, \$1.00 to \$2.00; specimens, \$2.50 to \$5.00

**KALMIA (E)**—**Mountain Laurel.**—A beautiful companion to the Rhododendron; beautiful flowers in clusters, pink changing to white; elegant foliage.  
Each \$1.50 to \$2.00

**KERRIA (D)**—**Corochorus Japonica.**—A green-branched shrub, 5 to 6 feet high; abundant yellow flowers from June to October. Each 35c, 50c to 75c

**LAUREL (E).**  
**English.**—A small tree, or bush, with handsome shining thick foliage. Excellent for large hedges or screens or as single specimens.  
18 to 24 inch, each 75c to \$1.00; 2 to 3 feet, \$1.50.  
Small, 12 to 18 in. and up, 50c to 60c. Write for prices in quantity for hedge.

**LAURUSTINUS.**—A small, intricately branched tree with glossy leaves. Flowers white, disposed in slender racemes appearing in late fall and winter.  
75c to \$1.00

**LABURNUM (D)**—**Cytisus Laburnum (Common Laburnum, or Golden Chain).**—Smooth and shining foliage. The name "Golden Chain" alludes to the drooping racemes of yellow flowers which appear in June.  
Each 35c, 50c, 75c to \$1.00

**LINDEN (D)**—**European.**—Very desirable and beautiful tree for park or street planting; large heart-shaped leaves, white flowers.  
5 to 6 feet each 75c; 6 to 8 feet \$1.00 to \$1.50

**LILACS (D)**—**Syringa.**—Everyone loves the lilac and no garden is complete without one or more. The new imported grafted varieties are very beautiful and produce magnificent large flowers.

**LILAC—Continued.**

**Common White or Purple.**  
Each 50c to 75c; large specimens, \$1.00 to \$2.00.

**Imported Budded Varieties.**—Your selection following named varieties, 3 to 4-year-old select plants, 3 to 4 feet and up, \$1.00 to \$1.50.

**Marie LeGraye (Single).**—Beautiful creamy white flowers of immense size.

**Souvenir de Louis Spaeth (Single).**—Immense trusses of a deep rosy purple.

**Mme. Lemoine (Double).**—Fine double white variety; very fragrant.

**Michael Buchner (Double).**—The best pale lilac or lavender.

**President Grevy (Double).**—Long trusses; double; beautiful blue panicles.

**MAHONIA AQUILIFOLIA (E)**—**Oregon Grape.**—Native of Oregon, and our state flower. Very valuable and desirable on account of its beautiful foliage and clusters of yellow flowers in spring, followed by blue-black berries.  
Choice plants, nursery grown, each 50c to 75c; large \$1.00 to \$1.50

**MAPLE (D)**—**Acer Japonica—Japanese.**—A beautiful class of low-growing, shrub-like trees, having brilliant colored leaves, which retain their brightness from spring until fall. Nothing finer than these can be had for planting, either in groups or singly on the lawn.

**Price:** Any of the following varieties of Japanese Maples, choice plants, \$1.00 to \$1.50; specimen plants, \$2.00 to \$3.00:

**Atropurpureum.**—Deep maroon, palmate leaf.

**A. Atropurpureum, Dissectum.**—Deep maroon, richly fringed, thread-like leaflets.

**A. Atropurpureum Variegatum.**—Bright crimson, with deep maroon variegation.

**A. Osaka-Zuki.**—Light maroon, changing to blood red in fall; palmate leaf.

**A. Scolopendrifolium Rubrum.**—Dark red fine, ribbon-like leaflets.



*Hydrangea Paniculata Grandiflora* (see page 90)

**FEED YOUR PLANTS.** You must supply "food," in other words, fertilizer, if you want the best results. Read about "Wonder," page 30, and ask for "Booklet."



**MAPLE (D)—Acer—Continued.**

**Silver Variegated (A. Negundo Variegatum)**.—Most attractive; leaf is variegated white and green; at a distance it has the appearance of the whole leaf being a silver-white; an excellent lawn tree. 3 to 4 feet each 75c to \$1.00; 5 to 6 feet, \$1.25 to \$1.50.

**LARGE GROWING MAPLES FOR SHADE**

**Norway, Oregon, Silver or Soft, Sugar or Rock.** (See Nursery Catalog for full description.) 6 to 7 feet, 60c to 75c; 8 to 10 feet, \$1.00 to \$1.50.

**MULBERRY (D).**

**Downing's Everbearing, New American, Russian and Teas, Weeping,** each, \$1.00 to \$1.50 and up. (See our Nursery Catalog.)

*Ethel, Wash., April 17, 1914.*

*Routledge Seed & Floral Co.*

*Gentlemen: I got the Chestnut trees in first-class condition, and was surprised to receive them so quick. I have sent to many different nurseries, but I have never been so pleased as I was with those trees; they were nicely packed. Thanking you for your promptness, I remain*

*Very truly yours,*

*J. A. JOHNSON.*



Flower Bud of Magnolia Soulangeana

**MAGNOLIA (E).**

**Grandiflora.**—Their elegant habit and foliage alone would render them indispensable, but the flowers, their crowning beauty, are unequaled in size and showy effect among hardy trees and shrubs. A magnificent evergreen, with large, leathery green leaves, more than a foot long; bears large, fragrant white flowers.

Each 75c to \$1.00; 3 to 3½ feet, \$1.50 to \$2.00; specimens, \$3.50 to \$5.00.

**MAGNOLIA (D).** (See cut.)

**Conspicua.**—A Chinese species of great beauty; shrub-like in growth while young, but attains the size of a tree in time. The flowers are large, pure white, very numerous and appear before the leaves. 2 feet each \$1.00; 3 feet each \$1.50 to \$2.00. Specimens 3 to 4 feet, branched, \$3.50 to \$5.00.

**Soulangeana.**—In habit it closely resembles Conspicua; flowers white and purple, cup-shaped and three to five inches in diameter; foliage large, glossy and massive; blooms later than Conspicua. Small, each \$1.00; large, each \$1.50 to \$3.00; specimens, \$3.50 to \$5.00.

**Lennei.**—Foliage large; flowers cup-shaped, dark red or purple; very showy; finest of the purple Magnolias. Each 3 to 4 feet, branched, \$3.50 to \$5.00.

**Obovata.**—Has striking flowers, light purple, richly variegated with white. Small, each \$1.00; large, \$1.50 to \$3.00; specimens, \$3.50 to \$5.00.

**MOUNTAIN ASH (D).**—Very ornamental trees, especially when covered with its clusters of red berries in the fall.

**European.**

6 to 8 feet 50c to 75c; 9 to 10 feet \$1.00 to \$1.50.

**PEONY MOUTAN (D)—Tree Peony.**—A small tree-shaped shrub, which in May is covered with dozens of massive blooms; it presents a magnificent display. We have Cream, White, Pink, Scarlet, Rose and Variegated. Each 75c; strong plants \$1.00 to \$1.50 each.

**PHILADELPHUS (D)—Mock Orange.**—Popular shrubs. They are usually tall, vigorous growers, with large foliage and flowers, and are valuable for backgrounds screens, grouping and specimens. Flowers are sweet-scented, milk-white and bloom in May and June.

Each 35c, 50c and 75c

**Gordonianus (Gordons Syringa).**—A valuable variety, blooms late and profusely.

Each 35c, 50c and 75c

**Grandiflorus.**—Very large, showy, fragrant flowers, somewhat drooping in habit.

Each 35c, 50c and 75c

**POPULAR (D).**—These well-known trees are planted largely for windbreaks and ornamental purposes.

4 to 6 feet, 35c to 50c; 8 to 10 feet, 60c to \$1.00.

**PRUNUS (D).**—Among the most beautiful deciduous hardy shrubs of Japan are the flowering plums, apples and cherries. Fine for small and large lawns. They flower profusely very early in the spring before the leaves appear; excellent for cutting.

**Japan Flowering Apple.**—Fragrant and beautiful; very early; White and Pink. Each \$1.00; large, well branched, \$1.50 to \$2.50.

**Cerasus (Cherry).**—Exquisite flowers in May.

Each \$1.00; large, well branched, \$1.50 to \$2.50.

**Pissardi.**—The purple-leaved plum of Japan. Covered in the spring with clouds of white flowers.

Each 75c; extra \$1.00 to \$1.50

*Davis, Cal., July 10, 1914.*

*Routledge Seed & Floral Co.*

*Gentlemen: You have by far excelled all the nurseries here on your class of plants, etc., and would like to get all my orders from you the same as ever.*

*Yours truly,*

*MRS. H. H. SCHMITT.*

**PRIVET—(Evergreen).**—One of the best hedge plants; has small, pointed, evergreen leaves; grows rapidly and compactly; stands severe pruning, and can be kept in fine shape with little care. (See cut.)

1-year-old plants, 12 inches up, per 50, \$1.75; per 100, \$3.00; 2-year-old plants, 24 inches up, per 50, \$3.50; per 100, \$6.00



Privet Hedge.

**QUINCE (D)—Cydonia.**

**Japonica (Japan Quince).**—Popular shrub, which blooms profusely in early spring; flowers dazzling scarlet; makes an excellent hedge. Each 35c, 50c and 75c

**RETINOSPORA (E).**

One of our most showy and graceful evergreens. There is a large class of Retinosporas, but the most popular are those of compact, tufted character. Choice, well-shaped plants in Green and Golden.

1 to 2 feet. \$1.00 to \$2.50 and up

**RED BUD—Cercis (D).**

**American Judas Tree (E).**—A very ornamental shrub for lawns; perfect heart-shaped leaves. Derives the name of Red Bud from the profusion of delicate reddish purple flowers with which it is covered before the foliage appears.

Each 75c to \$1.00



Flowers of Japan Quince



**RHODODENDRON PLANT**

"Balled in earth." Can be moved any time from October to June. Not mailable.

**RHODODENDRONS (E).**—This, wherever known, is universally acknowledged to be the most showy, magnificent, hardy evergreen shrub that grows.

The broad, thick, evergreen foliage with its glossy richness, would alone entitle it to a place foremost in the rank of evergreen shrubs, but when, in May and June, this mass of luxuriant foliage is almost hidden by the magnificent array of beautiful flowers in all colors from white to purple, the effect is simply grand. We import from Holland the choicest and best-named varieties.

**Choice Named Varieties.**—Strong and bushy, well set with flower buds that will flower nicely the first year; your selection of colors in White, Pink, Rose, bright or dark Red, Lavender, Rosy Lilac or Purple.

Prices: Small plants \$1.50 each; select, \$2.00 each, \$20.00 dozen; extra select, \$2.50 each, \$25.00 dozen; extra large specimens, \$3.00 to \$5.00 each.

**Ponticum.**—Very hardy, strong grower, rosy purple flowers. 2 to 3 ft., \$1.25 to \$2.50

**SMOKE TREE—Rhus.**

**Purple Fringe or Smoke Tree.**

Small, 50c to 60c; specimens, \$1.00

**White Fringe.**

75c to \$1.00

**SPRUCE (E)—Abies.**

**Excelsa (Norway Spruce).**—One of our most popular evergreens. Very desirable for single specimens in the lawn and largely used for screens and wind breaks on account of its rapid growth. Foliage dark green.

Specimen plants, 75c to \$2.50 each; for hedges 20c to 60c, according to size.

**Pungens, Glauca-Kosteri (Colorado Blue).**

—A beautiful variety on account of its magnificent rich, silvery blue color. We offer only the "true blue" imported from Holland.

Small plants, \$1.50 to \$2.00; 3 feet up, \$4.00 to \$5.00.

**REMEMBER—"E" following the name signifies Evergreen plants that must be balled and are not mailable. See inside front cover about prepaying.**



**Spirea Thunbergii**

**SPIREAS (D).**—Graceful shrubs, everyone should plant. They are of the easiest culture, and very desirable in collections. All the Spireas bloom with a riotous extravagance which makes them quite striking. Their individual style, color and habits of growth differ so markedly, that a collection of varieties will ensure bloom the entire season.

**Anthony Waterer (Bumalda).**—Covered nearly the whole growing season with large umbels of deep crimson flowers.

Each 60c and 75c

**Prunifolia (Bridal Wreath).**—Slender, erect ingrowing variety, bearing very early in the spring, small double white flowers the entire length of its branches; very graceful habit. Each 35c, 50c and 60c

**Van Houttel.**—The grandest of all the Spireas. It is a beautiful ornament for the lawn at any season, but when in flower it is a complete fountain of white bloom, the foliage hardly showing; perfectly hardy and an early bloomer. (See cut.)

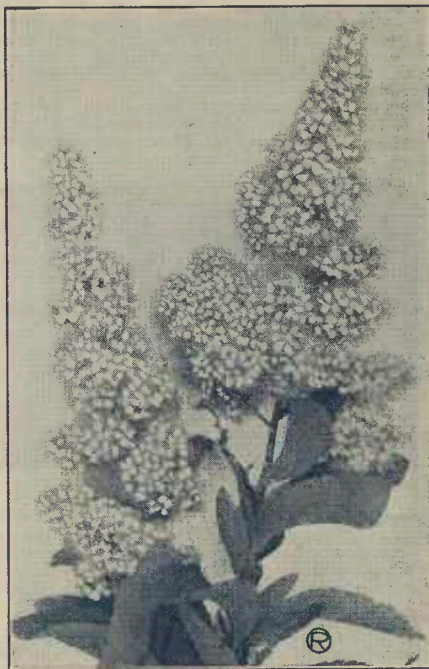
Each 25c, 35c, 50c and 60c

**Thunbergii.**—Of graceful habit; the branches are slender and somewhat drooping; foliage in autumn changes to bright red and orange; flowers in feathery masses, white, appearing early. (See cut.)

Each 25c, 35c, 50c and 60c

**Billardi.**—Produces fine, deep pink flowers and blooms nearly all summer. (See cut.)

Each 25c, 35c, 50c and 60c



**Spirea Billardia (Flower Spike)**

Medical Lake, Wash., Jan. 5, 1914.

Routledge Seed & Floral Co.

Dear Sirs: I got the lilies all right. They were the largest and best that I have ever had and I have been buying bulbs for the last 20 years. I shall want some Roses in the spring.

Yours truly,  
F. M. LANGLEY.



**Spirea Van Houtte**

**NOTE—NO MORE AGENTS or traveling salesmen for us. We can give you better satisfaction without them. See page 1 and inside front cover.**

**SUMAC (D).**

**Cut-Leaved Sumac (Rhus Glabra Laciniata).**—A beautiful shrub, with large leaves, deeply and finely cut, and drooping graceful habit. Leaves assume a gorgeous crimson color in autumn.

50c to 75c

**SYMPHORICARPUS (D).**—Highly valued for use in densely shaded situations where little else will grow, and for the striking beauty of their bright, persistent fruits. 3 to 5 feet.

**Alba (Snowberry).**—Inconspicuous, rose-colored flowers in June and July; followed by large, clustered, milk white fruits which remain far into the winter.

35c, 50c and 75c

**Ebra (Indian Currant).**—Similar to the Snowberry except that its fruits are red and that the smaller red berries cluster in thickly about the stems and branches.

35c, 50c and 75c

**TAMARIX (D).**—**Tamarisk.**—Shrubs of light green, feathery foliage, thriving in light, sandy soil.

**Africana.**—Pink flowers. Each 50c to 60c

**TULIP TREE (D).**—A rapid-growing tree, with rich, glossy foliage; flowers tulip-shape, greenish-yellow; a fine shade tree. 4 to 6 ft. each 75c; 7 to 8 ft. each \$1.00 to \$1.50.

**DON'T**

Be misled by the fine catalogs with little prices sent out from the East. Buy our field grown plant, much larger and better than the weakly Eastern stock.



**Viburnum Plicatum—Japanese Snowball.**

**VIBURNUM (D)—Snowball.**

**Sterilis (Common Snowball).**—Blooms in latter part of May. Flowers pure white, large balls. Every one should plant a Snowball.

3 to 4 ft. each 50c to 60c; 5 to 6 ft. 75c to \$1.00; extra choice plants \$1.50.

**Plicatum (Japanese Snowball).**—One of the most charming hardy flowering shrubs in existence; bears great wreaths and clusters of pure white globular masses of flowers; covered with bloom for weeks in the spring; grows 4 to 6 feet high; entirely hardy. (See illustration.)  
1 1/2 to 2 ft. 50c to 60c; 2 to 3 ft. 75c to \$1.00.

**Lantana (Wayfaring Tree).**—White flowers in large dense cymes; fruits bright red, changing to a much darker shade with age.  
Each 35c, 50c and 75c

**Opulus (High Bush Cranberry).**—Handsome and dense foliage; flowers white in drooping flat cymes followed by brilliant scarlet fruit in showy pendulous bunches that remain on the plant all winter.  
Each 35c, 50c and 75c

**WILLOW (D)—Salix.**

**Babylonica (Babylonian or Weeping Willow).**—Foliage is bright green and has a wavy appearance. A well-known and graceful variety.  
Each 60c to \$1.00

**Caprea Pendula (Kilmarnock Weeping Willow).**—Very distinct and ornamental. Large, dark green leaves; branches droop to the ground.  
4 to 6 ft. stem, good head, \$1.50 to \$2.50

**WEIGELA (D) — (Diervilla).**—Beautiful shrubs that bloom in May, June and July. The beautiful trumpet-shaped flowers are produced in so great profusion as to almost entirely hide the foliage. They are very desirable for the border or grouping, and as specimen plants for the lawn. (See illustration.)

Prices: Following kinds, each 35c to 50c; extra large plants, 60c to 75c.

**Candida.**—Beautiful white flowers; a continuous and profuse bloomer; very hardy.

**Rosea.**—Lovely large, rose-colored flowers, borne in such profusion that the whole bush appears a mass of rosy bloom.

**WALNUTS (D).**

**American Black (Juglan).**

4 to 6 ft. each 60c to 75c

**English or French.**—We have a fine lot of young trees. These are nut-bearing, second-generation stock and of the best varieties for this Coast.

prices: Each, 3 to 4 ft. 30c to 40c; 5 ft. each 60c; 6 to 8 ft. 75c to \$1.00 each; 8 to 9 ft. \$1.25.

**Grafted.**—Franquette or Mayette.

4 to 5 ft. \$1.25; 5 to 7 ft. \$1.25 to \$1.50.



**Weigela (Flowers one-half Size.)**

**YEW (E)—Taxus.**

Small growing evergreens that are highly ornamental as single specimens or in groups. Very desirable for formal effects.

**English (Baccata).**—Of slow growth and bushy form; branched and thickly covered with somber green foliage; can be trimmed into any shape. \$2.00 to \$2.50

**Irish (Hibernica).**—Peculiarly upright in growth; foliage dark green and distinct; compact. \$1.50 to \$3.00

**Irish Golden.**—Leaves green and gold; very attractive and effective. \$1.50 to \$2.50

**YUCCA (E)—Adam's Needle.**

A stately foliage and flowering plant equally imposing in solitary or group plantings, always conspicuous. The broad sword-like foliage is evergreen; while midsummer shows great erect branching stems bearing a showy display of pendant, creamy-white bells.

1-year plants, 8 to 10-inch, 20c each, \$2.00 dozen; 2-year and up, 35c to 50c; 15 to 24-inch, 75c to \$1.00; specimen plants, \$1.50 to \$3.00.

**HARDY VINES.**

**CLEMATIS (Virgin's Bower).**—No hardy flowering climbing vine excels in beauty and effectiveness the finer sorts of Clematis. As a climber for the veranda, a screen for fences, for pillars along the garden walks, for training on walls or arbors, or in masses on rockwork, it has no rival among strong growing blossoming plants. The Clematis should be grown in rich, deep, sandy loam, and be well mulched with rotten manure in

**Yucca (Adam's Needle)**

winter. The richest sheets of bloom and largest flowers are obtained where it has partial shade and a liberal supply of water at the roots.

**Paniculata (New Sweet-Scented Japan Clematis).**—Of very rapid growth, quickly covering trellises and arbors with handsome, clean, glossy, green foliage. The flowers are of small size, pure white, borne in profusion in September and October, and of a most delicious and penetrating fragrance.

Small plants, 25c; strong 2 to 3-year-old plants, 35c to 75c each.

**C. Montana.**—A hardy rapid grower, flowers snow white, fragrant and freely produced in May and June. Strong plants, 50c to 75c

**Montana Rubens.**—New, same as above, except in color, which is of a pleasing shade of soft rosy red. Each, 60c to 75c

**LARGE-FLOWERED CLEMATIS**

These bear large and beautiful flowers of various shades of color through the latter part of the summer and early fall. The following varieties are the very best and our plants are all two years old.

Your choice of the following strong roots 75c each; 3 for \$2.00; 5 kinds, \$2.75 postpaid.

**Henryi.**—Fine, large, creamy white flowers.

**Jackmanii.**—Intense violet purple; most popular variety.

**Ville de Lyon.**—The best bright red; equal to Jackmanii in size.

**Lawsoniana.**—The best light blue or lavender.

**Duchess of Edinburgh.**—A free-flowering double white variety; very fragrant.

**Clematis Jackmanii Vine and Single Flower, 1/4 Size**

## HARDY CLIMBING AND TRAILING VINES—Continued.



Trumpet Vine (Bignonia).

### AMPELOPSIS

**Veitchi (Boston Ivy, or Japan Ivy).**—The most popular and desirable climbing plant for covering brick, stone or cement walls, etc.; when it becomes established at the root it is of very rapid growth, and clings to the smoothest surface. The foliage is of a rich olive green during the summer, changing to various shades of bright crimson and scarlet in the fall. In planting Veitchi of all kinds, the plants should be cut down to within 6 inches of the ground, so that the new growth may cling to the wall from the bottom up.  
Strong plants 25c to 35c; extra strong 50c

**Quinquifolia (Virginia Creeper, or American Ivy).**—This well-known climber is one of the best and quickest growing varieties for covering trees, trellises, arbors, etc.; its large, deep green foliage assumes brilliant shades of yellow, crimson and scarlet in the fall.  
Strong plants 25c to 35c; extra strong 50c

**Engelmanni.**—Very much like the above, but on a rough surface it will cling without support in the same way as the Veitchi.  
Strong plants 25c to 35c; extra strong 50c

### IVY

**Common English.**—Thick, leathery, evergreen leaves; strong grower.  
Good roots each 15c to 25c

### CLIMBING HYDRANGEA

**Schizophragma.**—This bears large panicles or trusses of flowers, which resemble a white Hydrangea. It clings readily to any rough surface or wall, flowering freely during July and August.  
Large imported plants \$1.25 each; cannot be mailed.

### DUTCHMAN'S PIPE (Aristolochia Sepho)

A strong, rapid growing vine with handsome light green leaves. It will give a quick, dense shade and is much used on arbors and trellises. The brown flowers are shaped like the bowl of a pipe. Large plants.  
Each 75c to \$1.00

### HONEYSUCKLE

A beautiful climber, rapid grower and very desirable; flowers very fragrant, and produced in great profusion. Your choice of the following 35c to 50c each; extra strong 60c to 75c:

**Halleana.**—Very popular; almost evergreen; profuse bloomer; flowers white, passing to yellow.

**Belgica (Monthly Fragrant).**—Flowers are large and very fragrant; color red and yellow.

**Sempervirens (Scarlet Trumpet Honeysuckle).**—Trumpet-shaped flowers of a bright scarlet.

**Flava (Yellow Trumpet).**—A choice but scarce species, with bright yellow flowers.

### JASMINE

Graceful, pretty flowers with fine foliage, clean, neat, attractive and hardy.  
Each 50c to 60c

### TRUMPET VINE—Bignonia

For covering unsightly places, trellises, rockwork, or wherever a showy-flowering vine is desired, the Bignonias will be found very useful. The flowers are large, attractive and borne profusely when the plants attain a fair size.  
Strong plants each 50c to 75c

### WISTERIA

A rapid, hardy climber that will grow to a height of 50 feet or more. The fine foliage and flowers are produced early in the season, and come in magnificent clusters. One of the most desirable and showy climbers we know of.

**Sinensis.**—Lovely panicles of flowers, produced in the most wonderful profusion. White or Purple, strong, 2-year vines, 60c to 75c; extra heavy, \$1.00 to \$1.50 ea.

**Multijuga.**—This valuable new Wisteria was introduced from Japan, and produces magnificent racemes of lovely flowers, often measuring 18 to 24 inches in length. White or Purple—budded stock from Japan \$1.00 to \$1.50; extra old and strong, \$2.00 to \$2.50.

**Important**—When planting clematis and other vines be sure you spread out the mat of fine roots so that the soil comes in contact with all of them, otherwise they will dry out and die.

## SPRAY PUMPS AND SPRAYERS

We can supply nearly twenty different styles, from a light hand pump to the large, powerful power outfits.

**FEW SPRAY PUMPS EQUAL AND NONE BETTER THAN WHAT WE OFFER**

**NO. 5 HARDIE BARREL PUMP.**—Used in our wheel outfit No. 21 and barrel outfit No. 14; is arranged for two lines of hose; will supply from two to three nozzles; plunger tube is  $1\frac{1}{2}$  inches inside diameter; stroke of plunger, 4 inches; and when operated at 30 strokes per minute will convert into a fine spray 50 gallons of liquid per hour.

Price, with iron air chamber, \$9.50; with brass air chamber, \$11.00.

**NO. 6 HARDIE BARREL PUMP.**—Fitted for two lines of hose; will supply from four to six nozzles; inside diameter of plunger tube 2 inches; stroke of plunger from  $4\frac{1}{2}$  to 5 inches; when operated at the rate of 30 strokes per minute will convert into a fine spray 120 gallons of liquid per hour. Furnished with flat plates for end of barrel or flat top tank, if so ordered, without extra cost.

Price with iron air chamber, \$11.00; with brass air chamber, \$14.00.

### OUR SPECIAL OUTFIT NO. 17½.

One No. 6 all-brass pump, mounted on barrel, one 15-foot lead best  $\frac{1}{2}$ -inch hose, one 10-foot bamboo extension rod with stopcock and drip guard, one 2-cluster Vermorel nozzle, all complete and ready for work.

Price \$21.00; mounted on barrel, \$25.00; extra lead of hose, extension and nozzle, \$5.00 extra.

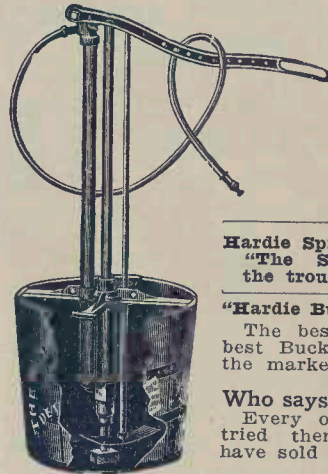
### OUR SPECIAL OUTFIT NO. 21—(See cut.)

This outfit is designed to meet a long-felt want by the small fruitgrower and gardener. The 30-gallon barrel is mounted on strong wrought-iron wheels, 26 inches in diameter, with  $1\frac{1}{2}$ -inch tires. No. 5 pump, 5 feet best hose and couplings, 8-foot bamboo rod and leakless stopcock, 1 Vermorel nozzle.

Price \$22.00

### HARDIE BUCKET PUMP.

A high-grade, all-brass bucket pump, especially designed to meet the long-felt want in this line. It is the only bucket pump on the market that has a mechanical



**Hardie Spray Pumps—**  
"The Sprayer with the trouble left out"

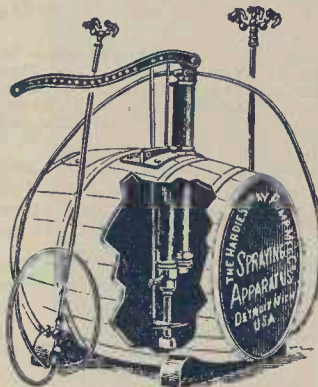
"Hardie Bucket Outfit"  
The best value and best Bucket Pump on the market.

Who says So?  
Every one who has tried them; and we have sold hundreds.

agitator and that is so designed as to always stand in position in the center of the bucket. It can readily be detached from the bucket by unscrewing a nut on the spider. This new device for holding the pump firmly in place in the center of the bucket enables the operator to carry the whole outfit with one hand. A practical outfit for light work. **This is the only bucket pump in the market that is giving entire satisfaction.** Good-sized air chambers enables one to maintain a high pressure and continuous spray.

Price, including No. 4 Pump, one 5-gallon heavy wooden bucket, three feet best  $\frac{1}{2}$ -inch hose, one spraying lance 18 inches long, one spraying nozzle, \$7.00.

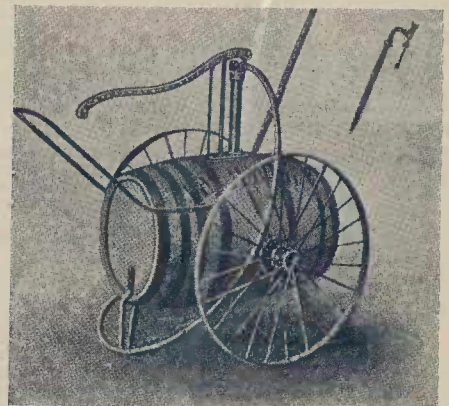
To reach the tops of tall trees, you should order, extra, an extension rod. For price of extension rods, see page 101.



No. 6 Hardie Barrel Pump Mounted

**HARDIE PUMPS**  
Guaranteed to do the work claimed or your money back.

For full information and descriptions of our barrel, twin cylinder, wagon and power spraying outfits send for Hardie 50-page descriptive Spray Pump Catalog. Free.



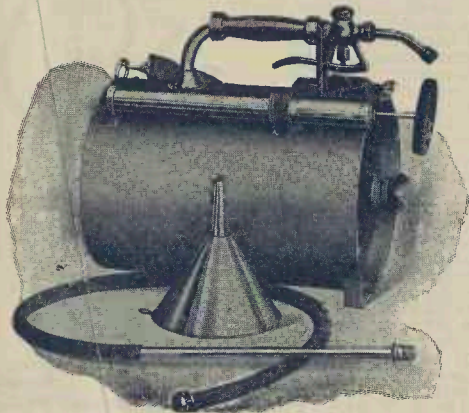
Hardie Wheel Outfit No. 21

**TELL US what amount of spraying you have to do and WE WILL RECOMMEND A RELIABLE OUTFIT, WITH PRICE.**

**LOWELL FOUNTAIN SPRAYER**

The only perfect and satisfactory compressed air sprayer on the market. It's really a pleasure to operate them.

Every city gardener, florist and poultry keeper needs a Lowell Fountain Sprayer; clean and easy to operate; no need to get any spray on your hands or clothes; will last a lifetime with reasonable care. (Try one at our store.)



**Lowell Fountain Compressed Air Sprayer.**

**Exclusive Points** (note the illustration.)—It is devoid of complex or intricate parts, both automatic and positive in its action. One charge of air is sufficient to expel entire contents. Always ready, a few strokes of its plunger starts the continuous spray. No slopping or spilling of the spray. The spray discharge is in the form of a dense fog or mist. There is absolutely no drip and therefore no shield or guards are needed.

**Construction.**—The heads after being seamed and riveted are dipped into molten solder, making it absolutely air-tight and the strongest Air-Pressure Sprayer made—standing five times the air pressure necessary to operate.

Note, can be carried by the handle or the shoulder strap and the automatic controlling valve under the handle is easily operated with one finger. You have perfect control of the spray and don't waste any.

**Saves Its Cost.**—This valve and lever will save the cost of the sprayer in making a given amount of solution do so much work. None is wasted. The short crook shown in the cut is used without the hose when spraying vegetables and small fruits. For reaching the under side of leaves of low bushes, attach the hose and use the vine attachment extension rod. For tree work you can use as many two-foot brass extensions as is necessary to reach the desired height.

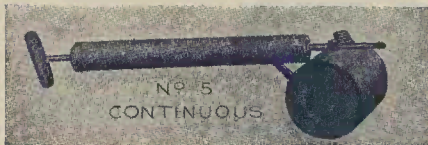
**Price: (Not prepaid) No. 110, Brass Tank, \$7.00; No. 111, Galvanized Tank, \$5.00.** (P. P. 12 lbs.)

**NOTE.**—Can be sent by parcel post, but express is safer.

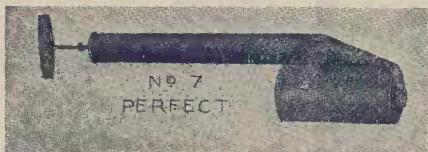
**EXTRAS**—2-foot brass extension rods, each 50c; vine attachment, a 2-foot extension with bent neck, each 75c. (P. P. 1 lb.)

**NOTE.**—Any little part can be furnished at any time. If wanted, send for catalog showing parts.

**HAND SPRAYERS OF "MERIT"**



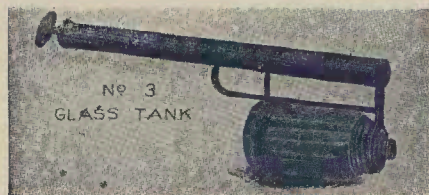
**NO. 5.**—A new continuous hand sprayer of real merit; the new style for 1915 is larger and greatly improved. As the name implies, is so constructed that it not only sprays on the downward stroke of plunger, but also when it is drawn back, thus causing a continuous, mist-like spray, enabling one to spray three times as fast and with one-third the labor. Positive in its action and practically indestructible. Length 20 inches, Capacity, one quart. (P. P. weight 1 1/4 lbs.) **Each: tin, 75c; galvanized, \$1.00; brass, \$1.50.** (Add postage.)



**NO. 7.**—Capacity, one quart. The special arrangement of the spraying tube is such that it thoroughly breaks up or atomizes all oils and solutions into a fine mist-like spray which penetrates all cracks and crevices. Adapted for all kinds of general spraying and is used very extensively for spraying disinfectants, etc. Length 20 inches. **Price, charges prepaid, only 50c.**



**NO. 6.**—Practically the same as No. 7, except the reservoir is put on crossways. Preferred by some. **Price, charges prepaid, only 50c.**

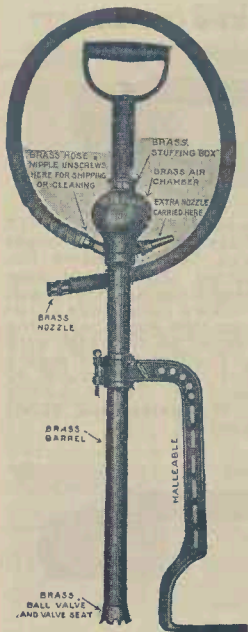


**NO. 3 GLASS TANK.**—Well constructed, the glass reservoir which is a quart Mason jar is not affected by any kind of spray. You can have several jars of different sprays (already prepared) and when you wish to change, take out one and put in another. No delay. Extra long air chamber, special plunger and throws a strong, fine spray in any direction. (P. P. 3 lbs.) **Each, (not prepaid), \$1.00**



## Spray Pumps—Continued

Don't wait until the fungi, such as mildew, etc., have attacked plant or tree; the fungicides are merely preventives and should be used in the fall or early in the spring. After the disease has developed, it may be too late to save the plant.

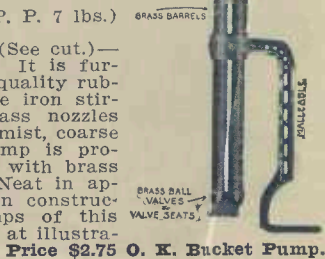


No. 32 Bucket Pump.

**NEW NO. 32 BUCKET PUMP.**—Made entirely of brass. Has bulb shaped air chamber at top of cylinder, which is also made of brass, and causes the Pump to be operated with ease, and discharge a continuous steady spray. Furnished with three feet of heavy best quality rubber hose, (detachable), three nozzles, one fine and one coarse, for spraying; also a fire nozzle for fire protection. This Pump will throw a solid stream fifty feet. Often used for washing wagons, windows, etc.

Price, all complete, \$3.50. (P. P. 7 lbs.)

**O. K. BRASS BUCKET PUMP.**—(See cut.)—Constructed entirely of brass. It is furnished with three feet of best quality rubber hose, detachable; malleable iron stirrup, three interchangeable brass nozzles which throw a continuous fine mist, coarse spray or a solid stream. Pump is provided with large air chamber, with brass ball valves and valve seats. Neat in appearance as well as durable in construction. Much superior to pumps of this class offered heretofore. Look at illustration carefully. (P. P. 7 lbs.)



O. K. Bucket Pump.

## Powder Sprayers, Blowers and Dusters

These are used for applying Sulphur, Bug Death, Dry Bordeaux or insect powder of any kind. We offer three of the best and most practical powder sprayers made



Acme Powder Gun No. 2

**ACME POWDER GUN NO. 1.**—Consists of a tight valveless bellows equipped with a distributing tube or nozzle, a funnel, a spreader for diffusing the spray, and an elbow for placing the spray on the under side of the leaves. Capacity  $\frac{1}{4}$  pound, length 24 inches, weight 2 pounds. Directions on each gun. (P. P. 3 lbs.) Price \$1.00

**ACME POWDER GUN NO. 2.**—Similar to No. 1, but has a double bellows, arranged to give a continuous blast. Neck cord to sustain weight of the gun. Capacity  $\frac{1}{2}$  pound, length 33 inches, weight (P. P. 5 lbs.) (See cut.) Price \$1.75

**LOWELL POWDER GUN** (See cut.)—Heavy tin. Finished in aluminum. We give a positive guarantee with each sprayer that it is impossible to draw powder back into the cylinder pump, and if the powder is sifted through a screen and kept absolutely dry it will not clog and throw a fine cloud of powder. The powder can hold one quart. (P. P. 2 $\frac{1}{2}$  lbs.) Price 90c



Lowell Powder Gun.

For small insect or powder gun, see Poultry Dept. page 119.



**DICKEY BUG DEATH DUSTER.**—For using when applying Lime, Dust or Powder of any kind. For use on small gardens this is very handy. Saves powder, puts it on evenly and just where you want it.

(P. P.  $\frac{3}{4}$  lb.)

Each 35c



**ACRE AN HOUR DUSTER OR SIFTER.**—Bucket shaped, straight sides, made of heavy tin, good handle, holds 5 lbs. powder. A simple twist of the wrist does the work. As its name implies, you can cover an acre of plants an hour. (P. P. 2 lbs.) Each 85c

## SPRAY NOZZLES, SPRINKLERS, EXTRAS, ETC.

### LAWN SPRINKLER

Don't waste time holding the hose nozzle—use lawn sprinklers, and change positions as often as necessary.

- Pluvius Lawn Sprinkler** (see cut below) (P. P. 4 lbs.) Each **\$1.35**  
**Monarch or Midget**—Same style as above, only lower. (P. P. 2½ lbs.) Each **\$1.15**  
**Busy Lawn Sprinkler** (see cut below).—Very desirable for medium sized yards. (P. P. 3 lbs.) Each **\$1.00**  
**Fountain Sprinkler** (Circular, brass). (P. P. 1 lb.) Each **\$1.00**  
**Little Wonder** (see cut No. 37).—Excellent in small yards. Covers 20 feet. (P. P. 1 lb.) Each **40c**

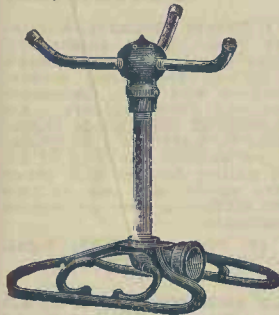
### HARDIE BAMBO EXTENSIONS

These have seamless aluminum tubing, leakless stopcock, drip guard, lance and brass connections at each end. (Not mailable.)

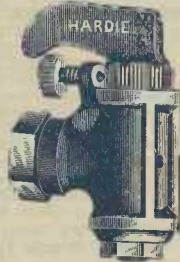
Price 6-ft. \$2.25; 8-ft. \$2.50; 10-ft. \$2.75; 12-ft. \$3.00. These are the lightest and best Extension Rods ever offered, and well worth the difference in price

### EXTENSION RODS—Ordinary

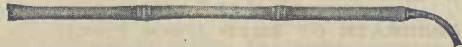
|         | Bamboo | Iron   |
|---------|--------|--------|
| 6-foot  | \$1.35 | \$1.00 |
| 8-foot  | 1.50   | 1.10   |
| 10-foot | 1.65   | 1.20   |
| 12-foot | 1.80   |        |



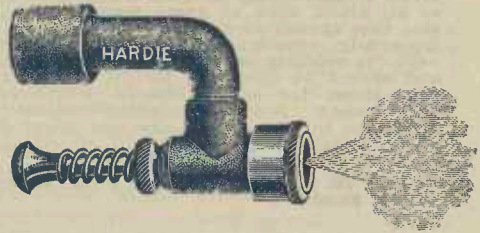
Pluvius Sprinkler



Bordeaux Spray Nozzle



Bamboo Extension with "Lance" Attached



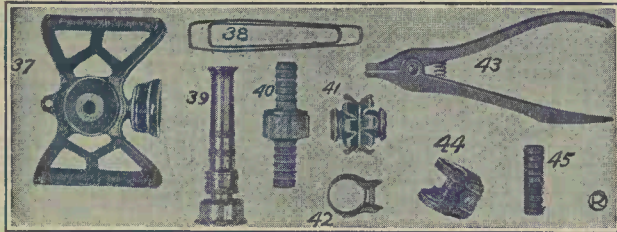
Vermorel Nozzle

Single Bordeaux (Best for Whitewash) \$0.75  
 Double Bordeaux 1.50

### SPRAY NOZZLES.

### PRICES POSTPAID

Single Vermorel (Very Fine Spray) \$0.75  
 Two-Cluster Vermorel 1.50



### GARDEN HOSE NOZZLES

No. 31—Diamond Nozzle.—Best for sprinkling; adjustable from solid stream to a fine spray.

(P. P. ½ lb.) Each 40c

No. 38—Wire Hose Straps.—Good, but cheap.

Postpaid, ½ in. or ¾ in. each 3c; doz. 25c

No. 41—Dandy Hose Mender.—Best mender made, simple and quick; nothing to catch; sure to hold.

Postpaid, ½ in. 20c; ¾ in. 25c

No. 43—Wire Hose Pliers. (P. P. 12 oz.) Each 25c

No. 40—Hose Connections. Both male and female couplings.

½ in. or ¾ in. pair 25c (6 oz.)

Snap Hose Coupling.—New automatic device of real value.

Each: ½ in. 25c; ¾ in. 35c (P. P. 6 oz.)

Hose Washers. Dozen 10c postpaid

No. 45—Brass Mender Tubes.—Very handy.

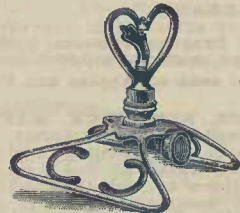
½ in. or ¾ in. each 5c; dozen 50c postpaid

No. 42—Hose Clamps.

½ in. or ¾ in. each 5c; dozen 50c postpaid

No. 44—Hose Clamps.—Double.

½ in. or ¾ in. each 10c; doz. \$1.00 postpaid



Busy Sprinkler

## SPRAY AND GARDEN HOSE

**XXX GRADE (Non-Kinkable)**—Guaranteed.

This hose gives excellent satisfaction. Good enough for any ordinary spraying outfit, and by far the best hose for florists' or gardeners' use. One customer reports that he used a 50-foot length of this grade for 3 seasons continuously, which proves that it is the cheapest hose to buy. We have this on 500-foot reels, and cut any length wanted.

Price, ½ in. 15c; ¾ in. 18c

**SPECIAL SPRAY HOSE**—The highest grade

extra heavy spray hose made; guaranteed.

Price, ½ in. only, 20c ft.

**TROUT COTTON HOSE**—Makes an excel-

ent garden hose for those preferring cotton on account of lightness. Made of 4-ply canvas with a good, thick, rubber lining. Price in 50-ft. lengths only, coupled.

½ in. \$4.50; ¾ in. \$5.50

We offer new stock only of high-grade hose for spray pumps and garden purposes. We advise our customers to buy the best. It is cheapest in the end. Don't buy old stock.

## SPRAYS, INSECTICIDES, ETC.



Using a Hand Sprayer

The best and most economical method of spraying is with an automatic sprayer, which forces the liquid out under air pressure, producing a very fine spray or mist and enables one to spray the top as well as the underside of the leaves, where the insects are always found, this being the most tender part of the plant to feed upon.



Dipping a Plant in a Pail of Spray

**DIPPING OF POTTED PLANTS.**—Place a cloth over the top of pot to keep in the earth and then invert and immerse the plant in the prepared bath.

**ARSENATE OF LEAD (Paste Form).**—For spraying trees and shrubs against the attacks of leaf-biting or leaf-eating insects of all kinds, such as green worms, slugs, etc., that appear on plants, shrubs or trees. Especially valuable for spraying to prevent the codling moth on Apple and Pear, and should be used just before the calyx cups close, for eating insects, whenever they appear. It comes in paste form and is diluted in water at the rate of about 1 oz. to a gallon of water. Full directions on each package. (Not mailable.)  
 Price, 1 lb. jar, 25c; 2 lb. 45c; 5 lbs. \$1.00; 10 lbs. \$1.90

**S-W DRY POWDERED ARSENATE OF LEAD.**—Claimed by those who have tested it to be better in many ways than the paste. Easier to mix and requires much less. Use 1 lb. to fifty gallons. This is mailable.  
 Price, 1 lb. 30c; 5 lbs. \$1.50; 10 lbs. \$2.50; postage extra. Quantity price on request.

**BORDEAUX**  
 Very effectual in preventing and checking all fungous diseases, such as blight, black spot, rust and mildew, on trees and shrubs, and scab on Apples and Pears.

**QUICK BORDEAUX MATERIAL ("Target Brand," powder form).**—The best Bordeaux on the market. All ready to mix with water at the rate of 1 pound to 20 gallons of water for winter; use 1 to 20 for summer. It is an excellent idea to sprinkle this powder under small bushes to prevent mildew.  
 Per lb. 15c; 5 lbs. 70c; 10 lbs. \$1.00 (Mailable.)

**BORDEAUX MIXTURE—(Liquid)**  
 Directions.—Winter strength 1 to 50, summer or when leaves are on the bushes 1 to 100.  
 Price, Qt. 60c; gal. \$1.25 (Not mailable)

**BLACK LEAF "40."**—A concentrated solution of nicotine sulphate containing 40 per cent nicotine. Indorsed by the foremost experts of the U. S., for curl leaf, green and wooly aphid, trips, plant lice, codling moth, pear psylla and all leaf-eating insects. Descriptive pamphlet on request.  
 Prices— $\frac{1}{2}$  lb. can 75c (P. P. 1 lb.), makes 47 gals. spray; 2 lb. can, \$2.50 (P. P. 2  $\frac{1}{2}$  lbs.) makes 240 gals. spray; 10 lb. can, \$10.75 (not mailable), makes 1000 gals. spray.

**Note**—Whale oil soap mixed in this solution makes it more lasting, as it sticks better.  
 Full and detailed instructions with each can.

**WEED KILLER ("Target Brand").**—Guaranteed to destroy weeds, grass, poison ivy and all undesirable vegetation. Keeps roadways and paths free from weeds. Cleans tennis courts and ball diamonds. Cleans alleyways and fence corners. An effective combination of high grade chemicals which diluted in water at 1 to 50 destroys the roots as well as the tops of all vegetation. One gallon diluted will cover 100 to 150 square yards; and one or two applications are sufficient for an entire season. (Not mailable.)  
 Price: Ft. 40c; qt. 60c; gal. \$1.25; 5-gal. \$6.00. Write for price per barrel.

**LILLY'S SOLUBLE SULPHUR COMPOUND**  
 This is the famous Niagara Sulphur Spray in dry form, now manufactured on the Pacific Coast under label "Lilly's." Successfully used three years. No sediment, no crystallization, no heavy barrel to handle. Dissolves readily in cold water. Always ready for instant use. Used the same way and for the same purpose as Lime-Sulphur Solution. It should be used on all fruit trees and shrubs in spring as a scale control and general clean up, later for Scab and Fungus. Use at the rate of 10 pounds to 50 gallons of water for winter or spring spray. This is the cheapest and best spray.  
 Descriptive 4 page pamphlet free.  
 100 lb. drum, f. o. b. Portland.....\$7.50  
 10 lb. can (P. P. weight 12 lbs.)..... 1.25  
 1 lb. can (P. P. weight 1  $\frac{1}{2}$  lbs.)..... .20  
 Full directions with each can.

**LIME AND SULPHUR SOLUTION.**—Known and used everywhere. Is one of the best sprays for San Jose scale. Our liquid is properly prepared and all ready to mix just as you get it. Add 8 gallons of water to each gallon of the Lime and Sulphur Solution. Beware of cheap mixtures. We offer only "Highest Quality." (Not mailable.)  
 Price: Qt. 25c; gal. 50c; 5 gal. \$1.75; 10 gal. \$3.50. Write for price per barrel.

**SCALE DESTROYER ("Target Brand").**—An oil spray of decided merit for San Jose scale. Has many advantages over Lime and Sulphur Solution. Being a soluble oil spray it spreads more readily, getting into every little crevice. Will go twice as far, making it as cheap. Has no bad odor and does not discolor foliage, and is much easier and more agreeable to apply. Now used very extensively in the East. Use one gallon to 20 of water, after the leaves are off and up to time buds appear. For summer spray use one gallon to 100 gallons of water. (Not mailable.)  
 Price: Ft. 25c; qt. 35c; gal. \$1.00; 5 gals. \$3.75; 10 gals. \$7.50. Write for price per barrel

Remember, we have the right kind of sprayers to apply above remedies economically. SEE THE INEXPENSIVE HAND SPRAYERS on page 99, prepaid FOR ONLY 50c.

**SULPHO-TOBACCO SOAP**

For spraying or sponging or dipping ferns, palms or potted plants, or spraying roses, shrubs, trees or vines it is invaluable. **Kills Aphids, Red Spider, Plant Lice and Sucking Insects.** Acts quickly and effectively against these pests, at the same time it is a fertilizer and revives plant life. Will not injure the tenderest plant. Two ounces of soap make a gallon of solution. Non-poisonous, perfectly safe and yet very efficient

Price: Postpaid, 3 oz. bar 15c; 8 oz. bar 25c.

**ROSE NICOTINE**

An effective and concentrated spray material to be diluted with water and applied as a spray or bath as directed. For **Lice, Aphids, etc., on plants, flies or lice on animals, bed bugs** etc. When diluted Rose Nicotine is colorless odorless and stainless.

Price: .25c can, prepaid 30c; 50c can, prepaid 60c; pt can, \$1.60, prepaid \$1.75. Full directions on each can.

**BUG DEATH (Non-poisonous).**

—A most effective powder that kills the **squash, cucumber and cabbage bugs, currant worm and all bugs and worms that eat the leaves of plants and vines.** Bug Death is a wonderful protection against insects. Absolutely non-injurious. Contains no arsenic. **Kills the bugs, prevents blight, revives and aids the healthy growth of plants and shrubs.**



Does the work as nothing else will. You can't afford to be without it. Bug Death is generally applied dry, but is very effective mixed with water and sprayed. Use 1 pound to 2 gallons water.

Price: 1 lb. cans with perforated shaker tops, 25c; 3 lbs. 50c; 5 lbs. 75c; 10 lbs. \$1.25; 25 lbs. at 12c lb; 100 lb. kegs, \$10.00. Mailable. See parcel post rates inside front cover.

Send for pamphlet, "Bug Death," which gives full information.

**BLUE LABEL SLUG DESTROYER.**—This is the first powder of its kind that we ever found to positively **kill slugs** and keeps them away from young plants. Full directions on each package.

Price. 1½ lb. pkg. 25c. (P. P. 2 lbs.)

**POTASSIUM SULPHIDE.**—(Liver of Sulphur.) One of the best preventives of **mildew** on roses and berry bushes. Dissolve ½ ounce in one gallon of hot water. When cold apply as a spray.

Price: 1 oz. 10c; 4 oz. 25c; 1 lb. can, 60c

**GRAFTING WAX.** ¼-lb. 10c; 1b. 35c

**WHALE OIL SOAP.**—For aphid, plant lice, etc. Best grade.

1 lb. 10c; 10 lbs. 85c; 100 lbs market price

**SULPHUR POWDER.**

Lb. 10c; 100 lbs. market price

**SULPHUR CANDLES.**

Each 10c postpaid 15c; 3 for 35c



**SURE DEATH TO GOPHERS, SQUIRRELS, PRAIRIE DOGS, RABBITS, RATS AND MICE.**

No more use for traps. Guaranteed to do the work or your money back.

The only prepared poison that will get a gopher. The government advises poisoning as the most effective and best method of exterminating ground pests. Gophergo is a combination that never fails. They are sure to get it, they like it and they eat it. Gophergo has been tested and endorsed by many state experiment stations. If farmers and gardeners would carry a small can of Gophergo when walking around their places and leave a few pellets where "signs" are discovered the pests will soon disappear. Full directions on each can.

Price: 10 oz. can 25c; 1½ lb. can 50c; 3¼ lb. can \$1.00. (Add postage.)

**TOBACCO DUST.**—Valuable as an insecticide and fertilizer. Better as a mulch than the stems. Lb. 10c; 10 lbs. 75c

**TOBACCO STEMS.**

Lb. 10c, 3 for 25c; per 100 lbs. \$3.00

**Rat Bis-Kit Paste**

The new poison in the tube

Kills Rats, Mice and Roaches Instantly

A New Formula, Guaranteed to kill every time or money refunded. No mixing, no spreading—just press the tube—the paste will spread itself. Clean, simple and sure. Use on any kind of bait. Keeps indefinitely. Price 25c per tube; five for \$1, postpaid



**CONKEYS PI-NO.**—A liquid of more than usual merit.

It takes a 16 pg. booklet to give you all the information and directions how to use. It is a **germicide, insecticide, parasiticide and antiseptic**, good for the human as well as the animal and plant life, and as its name indicates, has a pleasant pine odor. Ask for booklet "A Breath from the Fragrant Pines."

Prices—7 oz. bottle 25c, prepaid 35c; larger sizes not prepaid, pt. 50c, qt. 75c, ½ gal. \$1.00. Fully guaranteed.

BY PARCEL POST.—Note we can now send at parcel post rates (see page 1) any of our Sprays except those marked NOT MAILABLE, but be sure you add postage to cover.

### Miscellaneous Tools

We give the P. P. (Parcel Post) weights so you can add postage if wanted by mail. Don't forget to send it extra.

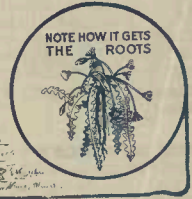
#### HALL DANDELION PULLER

Here is a tool that gets the dandelion roots and all, and operator stands up. No wet knees or aching back. Just push the blade down in the ground close to the weed, press towards the weed and pull up. A patent hook near point of blade does the trick. A slot prevents dirt from clogging the hook. Is made of polished steel and will last a lifetime. Handle 30 inches long, steel part 8 inches.

Price 50c. (P. P. 1 lb.)



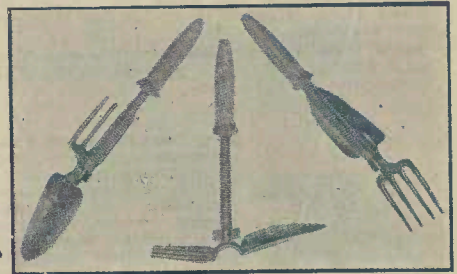
At work with a Hall Dandelion Puller. Easy on the back and really a pleasure.



#### "ALCA" GARDEN TOOL

In garden or greenhouse, in all seasons, this new tool will be found very handy. This remarkable combination tool, in plain words, is a trowel, fork, hoe, weeder and dibble—all in one. This handy combination tool is made of the best material—stout and compact—still occupying a small space and weighing less than a pound. A spring releases the particular tool you desire and the fret and worry of handling five separate tools is avoided.

Price 50c. (P. P. 1 1/4 lbs.)



"Alca" Garden Tool

#### WEEDERS

- | No. | (See Illustration)                            | Each   |
|-----|-----------------------------------------------|--------|
| 2   | <b>EXCELSIOR</b> —Five claws (P. P. 1/2 lb.)  | \$0.15 |
| 3   | <b>LANGS</b> —Very handy (P. P. 1/2 lb.)      | 20c    |
| 4   | <b>DIAMOND</b> —Very popular (P. P. 1/2 lb.)  | 20c    |
| 5   | <b>FORK</b> —Fine for digging (P. P. 1/2 lb.) | 15c    |

#### GRASS SHEARS

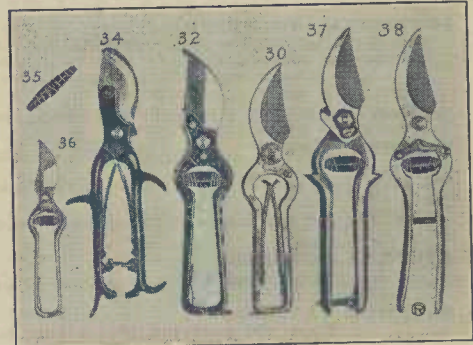
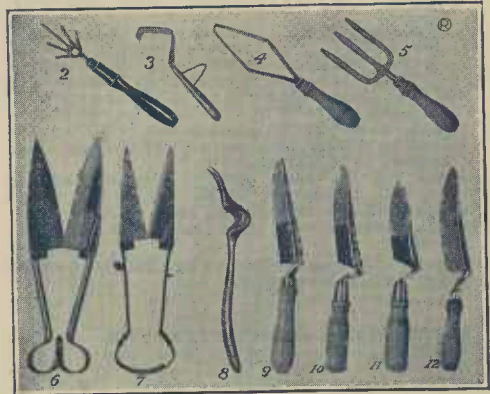
- | No. | (See Illustration)                                                          | Each   |
|-----|-----------------------------------------------------------------------------|--------|
| 6   | <b>B B A</b> —6 1/2-inch; high grade; best on the market (P. P. 1 1/4 lbs.) | \$1.00 |
| 7   | 5 1/2-inch blade; good value (P. P. 1 lb.)                                  | 40c    |

#### TROWELS

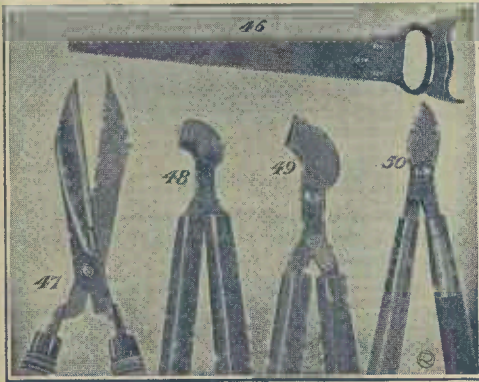
- | No. | (See Illustration)                                                              | Each |
|-----|---------------------------------------------------------------------------------|------|
| 9   | 6-inch steel blade (P. P. 1 lb.)                                                | 35c  |
| 10  | Very strong all steel; 6-inch (P. P. 1 lb.)                                     | 50c  |
| 11  | Same grade as No. 10 but has a 5-inch blade (P. P. 1 lb.)                       | 40c  |
| 12  | Best low-priced; 6-inch blade (P. P. 1 lb.)                                     | 15c  |
| 13  | <b>MAYNARD</b> —6-inch steel blade and shank; highest grade made. (P. P. 1 lb.) | 60c  |

#### PRUNING SHEARS

- | No.    | (See Illustration)                                                                       | Each   |
|--------|------------------------------------------------------------------------------------------|--------|
| 36     | 5 1/2-inch, nickel plated, spiral spring, for rose bushes or light pruning (P. P. 4 oz.) | \$1.00 |
| 37     | 9-inch, new style, with wire cutter; highest grade (P. P. 1 lb.)                         | 1.75   |
| 32     | 8-inch, black finish, good but cheap                                                     | .75    |
| 30     | 9-inch, full polish, double brass spring, extra good shear (P. P. 1 1/4 lbs.)            | 1.50   |
| 32 1/2 | Same as 32, extra heavy, black, 9-inch (P. P. 1 lb.)                                     | 1.50   |
| 34     | Black, with polished blade; best cheap (P. P. 1 lb.)                                     | .75    |
| 38     | 9-inch, new imported, patent fastener, bright finish, best for heavy work (P. P. 1 lb.)  | 1.75   |
| 35     | Extra spiral springs Postpaid                                                            | .15    |



POSTAGE EXTRA.—To get the cost by Parcel Post to your city on above, take the weights given and consult the zone rates. See table page 1.



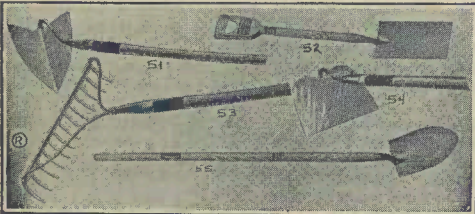
**TREE PRUNERS**

Long handle tree pruners indispensable for pruning tall trees.

**CLYDE.**—No. 15, with spring; 6 feet, 75c; 8 feet, 90c; 10 feet, \$1.00; 12 feet, \$1.15. Cannot go by mail. Extra blades 25c ea. postpaid.

**BUDDING KNIVES**

| No.     | (See Illustration)                            | Postpaid Each |
|---------|-----------------------------------------------|---------------|
| 20      | Ivory handle; 1 blade of best steel           | \$1.00        |
| 20½     | Same as above; black handle                   | .85           |
| 18      | Ebony handle; stationery ivory bark opener    | 1.00          |
| 19      | Wood handle; with good steel blade            | .85           |
| 14      | Horn handle; for budding or pruning; 3 blades | 1.50          |
| 16      | Horn handle; for budding or pruning; 2 blades | 1.00          |
| M. & G. | Stationary wood handle                        | .30           |



**GARDEN TOOLS**

Space will not permit us to illustrate and describe all our garden tools. Call or write for prices on anything wanted. (Not mailable.)

| No. | (See Illustration)                 | Each   |
|-----|------------------------------------|--------|
| 51  | Best garden hoe; solid steel shank | \$.075 |
| 52  | Maynard spade, best quality        | 1.50   |
| 53  | Solid steel rake, 13 teeth         | .80    |
| 54  | XXX flat hoe, best quality         | .75    |
| 55  | Maynard steel shovel, very best    | 1.50   |

The above are the very best. We have cheaper.

**TURF EDGERS.**—Solid steel shank... \$0.60

**GRASS HOOKS OR SICKLES.**—Village blacksmith, hand-forged, 45c; bent handle, 50c. (P. P. 1 lb.)

**SICKLE STONES.**—Three grades. (P. P. ¼ lb.) 5c, 10c and 15c

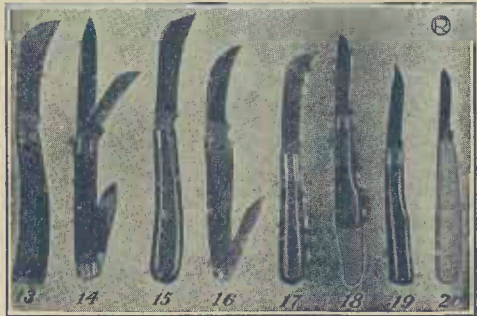
**PRUNING SAWS**

| No. | (See Illustration)                       | Each   |
|-----|------------------------------------------|--------|
| 46  | <b>DUPLEX;</b> double edge; 16-inch      | \$.075 |
|     | 18-inch (P. P. 1 lb.)                    | .30    |
|     | <b>CALIFORNIA;</b> curved blade, 16-inch | .75    |
|     | 18-inch (P. P. 1¼ lbs.)                  | 1.00   |

**BRANCH SHEARS**

Something everyone with a few trees should have; cut easy and are most durable. (See cuts.)

| No. | (See Illustration)                                                                                                                                                               | Each   |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| 48  | <b>CLYDE.</b> —Best cheap shear; 20-in. handle                                                                                                                                   | \$1.00 |
|     | 22-in. (P. P. 4 lbs.)                                                                                                                                                            | 1.25   |
| 50  | <b>FESNO.</b> —Long pointed blades of best steel; hardwood handles; 20-in. handle                                                                                                | 1.25   |
|     | 26-in. (P. P. 4 lbs.)                                                                                                                                                            | 1.50   |
| 49  | <b>RED CLIPPER.</b> —Draw cut with best tool steel blade; hook and shank held together with bolt and lock nut; hard maple handles; best for heavy work; cuts easy; 22-in. handle | \$1.75 |
|     | 24-in. (P. P. 4½ lbs.)                                                                                                                                                           | 2.00   |
| 47  | <b>HEDGE SHEARS.</b> —9-in.; high grade steel blades (P. P. 4½ lbs.)                                                                                                             | 1.75   |



**PRUNING KNIVES**

| No.     | (See Illustration)                  | Postpaid Each |
|---------|-------------------------------------|---------------|
| 15      | Large wood handle; hook blade       | \$.035        |
| 17      | Same as above, only smaller         | .50           |
| 13      | Large horn handle; excellent blade  | 1.25          |
| M. & G. | Plain wood handle; stationary blade | .50           |

**GRAFTING KNIVES**

| No. | (See Illustration)                    | Postpaid Each |
|-----|---------------------------------------|---------------|
| 1   | M. & G.—Wood handle; stationary blade | \$.035        |
| 2   | Same as above, only smaller           | .25           |

**GARDEN OR ROSE STAKES**

**CEDAR.**—Round; painted green, white top; last and look well. Per doz., 3 ft. 75c; 3½ ft. 80c; 4 ft. 85c; 5 ft. \$1.25; 6 ft. \$1.75; 8 ft. \$2.25.

**BAMBOO.**—Inexpensive and very desirable for pole beans, etc., or flowering plants or shrubs.

**NOTE.**—State for what purpose you want them, as we have them from pencil thickness (¼-inch) up to 1¼ inch.

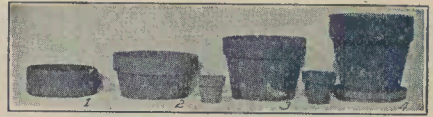
**Price per dozen:** 1½ ft. 10c; 2-ft. 15c; 3-ft. 20c; 4-ft. 25c; 5-ft. 30c; 6-ft. 50c; 8-ft. 75c. Write for low price by the 100 or 1000.

**SPRINKLERS**

**SPRINKLING CANS.**—Regular style; strong and well made.

4qt. 30c; 6 qt. 40c; 8 qt. 50c; 10 qt. 60c; 12 qt. 75c.

**ENGLISH.**—Imported, for florists, price on request.



**JARDINIERES, ETC.**

We carry in stock a large and complete assortment of the best styles and latest designs. Limited catalog space will not permit us to describe them.

We also have in stock 12 to 18-inch garden and porch vases or urns of fancy designs in pottery and wood. These are very ornamental and desirable for flowering plants, palms, etc. Prices on request.

**LABELS**

The tree and pot labels we offer below are strictly No. 1 labels, smooth and "really painted," not dipped in oil. Ordinary lead pencil writing on the painted labels is always readable; it don't wash off.

|                                   |       |       |        |
|-----------------------------------|-------|-------|--------|
| <b>TREE LABELS (P. P. 4 lbs.)</b> | 25    | 100   | M.     |
| Painted, copper wired...          | \$.15 | \$.25 | \$1.50 |
| Unpainted, iron wired...          | .10   | .15   | 1.25   |
| Aluminum, copper wired            | .60   | 2.00  |        |

|                                            |     |     |      |
|--------------------------------------------|-----|-----|------|
| <b>POT AND GARDEN LABELS, all painted.</b> |     |     |      |
| 4-in. (P. P. 3½ lbs.)                      | .10 | .20 | 1.25 |
| 5-in. (P. P. 4½ lbs.)                      | .15 | .25 | 1.50 |
| 6-in. (P. P. 5 lbs.)                       | .15 | .30 | 2.00 |
| 8-in. (P. P. 1½ per C.)                    | .20 | .50 | 5.00 |
| 10-in. (P. P. 2 lbs. per C.)               | .25 | .75 | 6.00 |

**SCHOLLY PLANT SPRAYERS.**—Made of best quality rubber and most convenient for spraying house plants.  
Small, \$1.00 (P. P. ½ lb.); Large, \$1.25 (P. P. 1 lb.)

**STANDARD POTS, ETC.**

Fig. 1—Fern Dish Filler; 2—Bulb Pan; 3—Azalia or Fern Pot; 4—Flower Pot. All styles same prices. Not mailable.

| Size    | Prices. |       | Saucers. |
|---------|---------|-------|----------|
|         | Each    | Doz.  | Each     |
| 2-inch  | \$.02   | \$.20 | .....    |
| 3-inch  | .03     | .30   | .....    |
| 4-inch  | .04     | .40   | \$.02½   |
| 5-inch  | .06     | .60   | .02½     |
| 6-inch  | .10     | .90   | .05      |
| 7-inch  | .12     | 1.20  | .07½     |
| 8-inch  | .16     | 1.75  | .10      |
| 9-inch  | .25     | 2.50  | .15      |
| 10-inch | .40     | ..... | .20      |
| 12-inch | .60     | ..... | .35      |
| 15-inch | 1.50    | ..... | .50      |

**FLORISTS' SUPPLIES**

- GLAZING POINTS (P. P. 1½ lbs.)** Per M. 75c
- MASTICA.** Per gal \$1.50
- MASTICA MACHINES.** Each \$1.50
- MOSS.** Lb. 5c; 100 lbs. \$3.00
- PUTTY BULES (P. P. 12 oz.)** Each \$1.00
- TIN FOIL.** Lb. 20c; 10 lbs. \$1.50
- RAFFIA** Lb. 25c; 10 lbs. \$2.00
- WIRE HANGING BASKETS (Not mailable).**  
6-in. 15c; 8-in. 20c; 10-in. 25c; 12-in. 35c; 14-in. 50c.

**Hall E-Z Garden Cultivator**

Just the right size and the right price for the average garden maker. Everyone who makes much garden should have one, as it reduces the labor one-half. Makes gardening a pleasure.

A combination tool for all kinds of garden work. Does away with the tiresome hand hoeing, weeding, etc.

Equipment consists of a **Flow**, a **Bake** for harrowing, a **Weeder**, a **Diamond Point** a **Bull Tongue** for cultivating between narrow rows.

The patent spring device as shown in cut between the handle and tool is an exclusive feature of the Hall Cultivator. It causes the tool to run even and steady without jar on the arms.

The handle can be adjusted to correct height for a child or tallest man. Power is applied direct to axle, making it easy running. Sixteen-inch wheel. Note the narrow, compact build of this tool, enabling one to use it between narrow rows and close up to the plants. Can be taken apart and sent by parcel post. (P. P. weight packed 14 lbs.)  
**Price: Complete \$3.50.**

**EXTRAS.**—3 Prong Cultivator attachment, (P. P. 1¼ lbs.), 50c; 5-Prong, (P. P. 1½ lbs.), 75c.



**E-Z GARDEN CULTIVATOR NO. 1.** Complete with 5 tools, (one reversible). Price only \$3.50.

**Cahoon Broadcast Seeder**

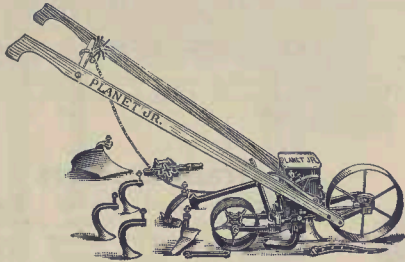
The standard broadcast seed sower, made of steel, iron and brass, will last a life time. Has force feed. Every farmer should have one, as it sows perfectly any kind of seed or grain. Full instructions with each machine.  
**Price \$3.50**

With a Garden Cultivator you can cultivate your whole garden in the time it would take you to hoe one row.

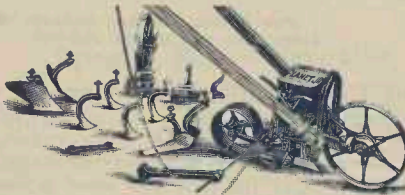
## Planet Jr. Garden and Farm Tools

For 40 years Planet Jr. Garden Tools have stood the test of world-wide usage, and are recognized in every known country as the highest type of garden implement. In Europe where labor is cheapest Planet Jrs. are in constant use. How, then, can you afford to be without them where labor is both high and scarce?

We cannot tell you all about Planet Jrs. in this catalog, but will send you the beautiful 64-page Planet Jr. catalog on request.



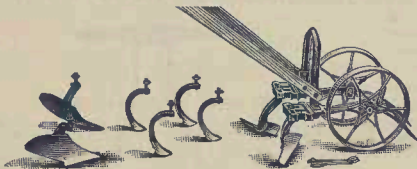
Planet Jr. No. 4 Combined Hill and Drill Seeder, Wheel Hoe Cultivator and Plow.



Planet Jr. No. 25 Combined Hill and Drill Seeder and Double Wheel Hoe Cultivator and Plow.



No. 16 Single Wheel Hoe Cultivator.



Planet Jr. No. 12, Double Wheel Hoe.

**NO. 4 PLANET JR., Combined Hill and Drill Seeder, Wheel Hoe, Cultivator and Plow.**—This tool combines in a single convenient implement a capital hill-dropping seeder, a continuous row-seeder, an admirable single wheel hoe, an excellent furrower, a capital wheel cultivator and a rapid and efficient wheel garden plow.  
**Price, complete \$12.00; (weight 53 lbs.) as a SEEDER ONLY, \$10.00. Holds 2 1/2 quarts of seed.**

**NO. 25 PLANET JR., Combined Hill and Drill Seeder and Double Wheel Hoe, Cultivator and Plow.**—This new combined machine is intended for gardeners who have a large enough acreage in crops for a Double Wheel Hoe to be used to good advantage, and yet prefer not to buy seeders and wheel hoes separately.  
 The change from Drill to Wheel Hoe and back again is quickly made.  
**Price, \$14.50 steel frame; (weight, packed, 50 lbs.) Holds 2 1/2 quarts of seed.**

**NO. 6, Hill and Drill Seeder Wheel Hoe Cultivator and Plow.**  
**Price, complete, \$14.50; plain, \$12.00**

**NO. 3, Hill and Drill Seeder. Price \$11.50**

**PLANET JR. SINGLE WHEEL HOES**—Every gardener should have one of these.

**NO. 16.**—See cut. Just the tool for the home garden. **Price \$6.50; No. 17, \$5.75; No. 17 1/2, \$5.25; No. 18, \$4.25.**  
 See Planet Jr. catalog for full information.

**PLANET JR. DOUBLE WHEEL HOES.**

**NO. 12.**—See cut for general use.  
**Price, \$7.85; No. 13, \$5.50; No. 13 1/2, \$6.85; No. 14, \$9.00.**

**SEE PLANET JR. CATALOG, all styles and descriptions of Horse Implements.**

Raymond, Wash., March 11, 1913.  
 Routledge Seed & Floral Co.  
 Gentlemen: I think your seeds and bushes are fine and today loaned your catalog for the second time this Spring. I feel as if I can recommend your seeds and be truthful about it too. Please send seeds and plants as soon as possible, and oblige.

Yours truly,  
 MRS. A. F. WHEATON.

### CORN PLANTERS

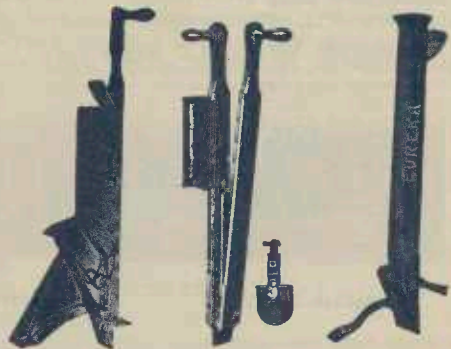
**ACME.**—Two-hand type; length 35 inches; a popular and successful planter; sure in its work. Will plant corn, peas and beans. (See cut.) (P. P. 6 lbs.) **Price \$1.00**

**SEGMENT AUTOMATIC.**—One-handed type; length 34 in. Can be adjusted for corn, beans or peas. You plant accurately and evenly as fast as you walk. (See cut.) (P. P. 7 lbs.) **Price \$1.50**

### POTATO PLANTERS

**EUREKA TUBULAR.**—Length 36 inches. This is the lightest and best tubular planter made; opens automatically as the top of it is moved forward in walking. (See cut.) (P. P. 5 lbs.) **Price \$1.50**

**PINGREE.**—Same as Eureka, without the tube down the handle. It is light and a very satisfactory planter. (P. P. 5 lbs.) **Price \$1.25**



Segment.

Acme.

Eureka.

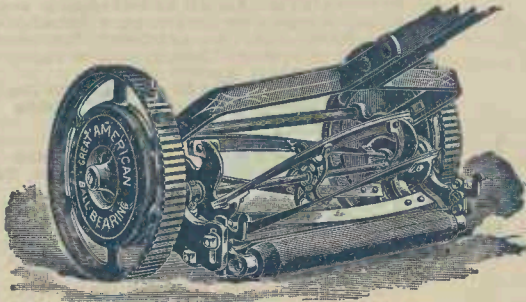


## Lawn Mowers

We do not carry a large variety, but we do offer the makes that run easily, wear well and do satisfactory work.

**GREAT AMERICAN BALL-BEARING.**—Open cylinder, five blades, 10-inch wheel, solid cast steel butting knives, hardened in oil; steel balls of highest grade, placed in dust-proof steel cup; cuts close; easily adjusted. **15-inch, \$10.50; 17-inch, \$12.50; 19-inch, \$13.50; 20-inch, \$15.00.**

**GREAT AMERICA.**—Closed cylinder, three blades, 7-inch wheel; hardened and tempered solid cast steel cutting knives, positively self-sharpening. **12-inch, \$7.00; 14-inch, \$8.00; 16-inch, \$9.00; 18-inch, \$10.50.**



Great American Lawn Mower.

**FAULTLESS.**—Best cheap lawn mower for money; has 3 blades tempered tool steel; good adjustment, **14-inch, \$3.50; 16-inch \$4.00.**

## Grass Catchers

**SIMPLEX.**—Good, cheap grass catcher. Canvas sides, galvanized bottom, wire frame. No. 1 for 14 to 17-inch mower, **\$1.50;** 18 to 21-inch, **\$2.00.**

For Grass Hooks, Shears, Sickles, etc., see pages 104-105.

## Dunham Water-Weight Lawn Rollers

This roller has a water-tight steel drum which can be filled with water to make it heavy, and emptied when storing away.

The roller is fitted with steel roller bearings and is an easy running, long-wearing machine. Ask for booklet—"The Proper Care of Lawns"—free. We carry the following sizes in stock. We will gladly get larger sizes on orders.

| No.   | Diam.   | Length  | Sections. | Weight | Filled with | Price   |
|-------|---------|---------|-----------|--------|-------------|---------|
|       | Inches. | Inches. |           | Empty  | Water.      |         |
| WB 3  | 14      | 20      | 1         | 65     | 200         | \$10.00 |
| WB 5  | 18      | 24      | 1         | 80     | 310         | 13.00   |
| WB 7  | 24      | 24      | 1         | 115    | 500         | 17.00   |
| WB 11 | 18      | 24      | 2         | 100    | 330         | 18.00   |
| WB 13 | 24      | 32      | 2         | 160    | 650         | 24.00   |

During Winter Months freezing and thawing and heavy rains loosen the soil and heave the turf away from the sub-soil, leaving millions of sensitive "feeder-roots" exposed to the air. In the spring when the grass should start growing these roots soon dry out and die.

In summer, too, sun and wind tend to dry out, bake and crack the surface soil around the roots and this is equally harmful to the lawn. A good roller will compress the soil around the roots, and press the turf back against the moist sub-soil so the roots can absorb the water and plant food.

Rolling occasionally throughout the summer (especially after heavy rains) keeps the surface even and prevents the soil drying out. It discourages the work of worms, ants, moles and gives a smooth, even lawn for the mower to run over.

It is absolutely impossible to keep a lawn, large or small, in perfect condition without rolling, no matter how many other things may be done in taking care of it. This fact should be well understood by the large and growing army of Americans who take pride in the beauty of the lawns surrounding their city or country homes.



Dunham Lawn Roller (Showing new "No Tip" handle lock and how to fill.)

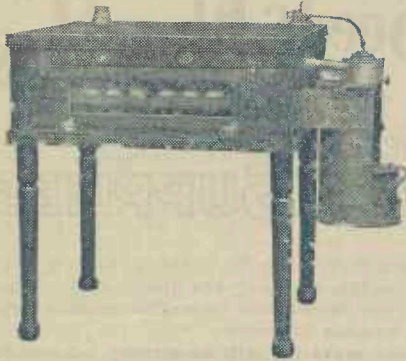


Before Rolling.

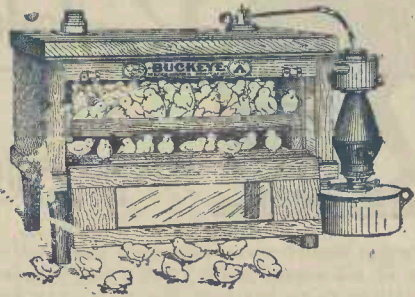
After Rolling.

E. R.'S EVERGREEN LAWN GRASS SEED (page 32) and WONDER ODORLESS FERTILIZER (page 29) makes those beautiful green, velvety lawns so much admired.

## Buckeye Incubators and Brooders



Standard Buckeye.



Style A, (short legs) 60-Egg Buckeye Incubator.

### Special Sale—Bargains

On account of “exclusive agency” on other poultry supplies we find it necessary to dispose of all Buckeye Incubators and Brooders and to quickly move them have attached cut prices. There is absolutely nothing the matter with these machines and they are real bargains. Order early if interested; they will not last long.

**BUCKEYE HOT WATER SELF-REGULATING INCUBATORS.**—One of the best hot water incubators on the market. We have sold them for the last 3 years with great success.

For twenty-two years Buckeye Incubators have been sold with a guarantee to hatch every hatchable egg.

The Buckeye is so simple that a boy or girl can operate it. That's the secret of its wonderful success.

#### CUT PRICES FOR 1915

\$2.00 to \$8.00 Less Than Regular.

Each incubator contains a printed Buckeye guarantee, instruction book, thermometer, egg-tester and extra tray.

- Style C (short legs) 50-egg.....\$ 7.35
- Style A (short legs) 60-egg..... 10.00
- Style A Standard, 60-egg..... 11.50
- No. 4 Standard, 350-egg..... 32.50

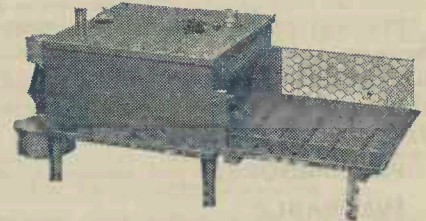
**BUCKEYE HOT WATER BROODERS.**—Well made and properly constructed. Equipped with automatic heat regulator and overhead hot water tank. Outdoor Style, will operate outside in any kind of weather. Indoor Style should be kept under cover.

#### CUT PRICES FOR 1915

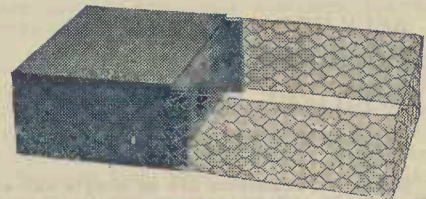
- No. 1 Indoor, 50 chick capacity.....\$ 7.50
- No. 2 Outdoor, 50 chick capacity..... 11.00
- No. 3 Indoor, 100 chick capacity..... 9.00
- No. 4 Outdoor, 100 chick capacity..... 12.50



Outdoor Self-regulating, Buckeye Brooder



Indoor Self-regulating, Buckeye Brooder.



Indoor Lampless, Buckeye Brooder.

#### BUCKEYE LAMPLESS BROODERS.

The Lampless or Fireless Brooder is becoming more popular each season. So constructed that the heat of the chick's body is retained under the felt hovering where the little babies are “as snug as a bug in a rug.”

They are especially adapted for use on this coast on account of our mild weather.

They also make an inexpensive second brooder for the older chicks.

**PRICE, 25-CHICK** with wire yard (6 lbs.) \$1.50.

**50-CHICK SIZE** (12 lbs.) only \$2.00.

**CHICK LIFE INSURANCE.**—Insure the life of your chicks by feeding our High Quality Chick Feed, put up under the Pure Food Law and guaranteed. See page 121.



# Routledge Seed & Floral Co's

UP TO DATE  
"HIGHEST QUALITY"

## POULTRY SUPPLIES

We are devoting the following pages of this catalog to incubators, brooders, poultry supplies of all kinds, poultry food, remedies and insecticides, etc., and are offering you what we believe to be the best line of poultry supplies in the West. We have practically everything needed and used in the profitable rearing and keeping of poultry.

**OUR MOTTO**, "Quality first—price as low as we can make it," will be strictly adhered to in this department, as well as in our other stocks.

### CYPHERS' INCUBATORS AND BROODERS

We are authorized agents for these world-renowned "hatchers" and "mothers," and appliances. We buy in carload lots and aim to have on hand at all times a complete assortment of all sizes and styles.

**READ THIS:** For 4 years we have sold Cypher's Incubators and Brooders and have had no complaints. Every buyer has been fully satisfied as far as we know. This is a record that could not have been made with any other line. **WE KNOW**—"We've been there"—the writer having sold in his 20 years' experience on this Coast every well known make.

Practical poultry raisers who mean business and desire the greatest possible success should look for and demand the qualities that have made Cypher's Incubators world famous.

**FIRE-PROOFED**  
**INSURABLE**  
**SELF-VENTILATING**  
**SELF-REGULATING**  
**NON-MOISTURE**  
**EFFICIENT, DURABLE AND**  
**POSITIVELY GUARANTEED.**

Cypher's Incubators are so simple and easy to operate that stands first, not only because it has affixed to it the fire insurance label granted by the National Board of Fire Underwriters and bears a world-wide reputation, but because of the well established fact that it is the best hatcher of large, vigorous, livable chicks. It is positively guaranteed to **outhatch any other make of incubator** under widely-varying conditions, season after season, and to last ten years without repairs.

**TO OWN A CYPHER'S** is to have an incubator that stands first, not only because it has affixed to it the fire insurance label granted by the National Board of Fire Underwriters and bears a world-wide reputation, but because of the well established fact that it is the best hatcher of large, vigorous, livable chicks. It is positively guaranteed to **outhatch any other make of incubator** under widely-varying conditions, season after season, and to last ten years without repairs.



**STANDARD  
CYPHERS INCUBATOR**  
Fire Proofed-Insurable.

No. 2—244 Egg Size—Note the deep full size chick drawers and nursery.

**CYPHER'S INCUBATORS** have now been on the market eighteen years and today are used by more Government Experiment Stations, on more large, practical poultry plants, on more successful duck and egg farms and by a larger number of foremost poultry breeders than all other makes combined.

For proof of these statements send to us for a copy of Cypher's Incubator Company's latest catalog free.

They are money savers and money makers for poultry raisers who "mean business"—for men and women who want a real incubator with which to get out of poultry keeping all the profit and all the pleasure there is in it.

**FREE IF INTERESTED**—If you want to know more about Cypher's Incubators and Brooders we will gladly mail copy of Cypher's 1915 Catalog free.

## Two New Styles Cyphers' Incubators for 1915

FOR THE SEASON OF 1915 we offer the poultry public of the United States and Canada three patterns or styles of high-class, guaranteed hatching machines, as illustrated and briefly described herewith. Please note closely the names, sizes and prices. These three styles of incubators, running through **Eight Different Sizes** and ranging in price from \$11.00 to \$40.00 are meant to meet the needs of all persons who are to be in the market for a satisfactory, successful incubator.

### STANDARD CYPHERS INCUBATORS

These are machines that for fifteen years and more have been recognized as the “standard hatchers of the world.” Tens upon tens of thousands of them have been sold and are in successful use in every civilized country on the globe. They are the last word to date in incubator building, not a penny being spared anywhere in their construction to make sure of their doing satisfactory work in all climates, under widely different conditions, in the hands of all sorts of people.

**PRICES AND SIZES**—Built in four popular sizes and at prices as follows: 70 eggs, price complete, \$16.50; 140 eggs, price complete, \$23.75; 244 eggs, price complete, \$34.00; 390-400 eggs, price complete, \$40.00. Satisfaction, or your money back.

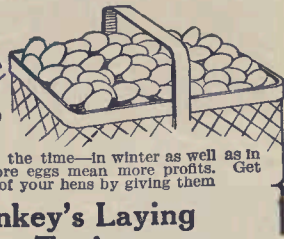
### COLUMBIA HOT-AIR INCUBATORS

Are built to meet the wide-spread demand for large-capacity, lamp-heated machines that can be sold at **surprisingly low prices** and yet be guaranteed to do high-class work. Have wooden cases, attractively finished in dark green, with brass trimmings and double walls. Seamless bottom lamp bowls, best quality brass burners, zinc and steel Standard Cypher's toggle-joint thermostat and same regulating equipment as used on highest priced machines. Fume-proof, forced draft heater, asbestos covered and metal banded. Automatic in ventilation and embodies diffusive principle. Roomy chick nursery under egg trays.

**PRICES AND SIZES**—Made in two sizes: 140 eggs, price complete, \$17.00; 250 eggs, (see illustration), price complete, \$21.50. Fully guaranteed.

**FREE CATALOG:** Write today for Cypher's descriptive catalog fully describing Cypher's “Standard,” Cypher's “Superior Hot-Water” and Cypher's “Columbia Hot-Air” Incubators, which will be sent free on request to any address. Cypher's 200-page Complete Catalog for 1915, entitled “The Profits in Poultry Keeping.” Contains valuable down-to-the-minute information on how to make the most money with poultry in small or large flocks. Sent free for 10c to cover postage and mailing, which can be deducted from your first order from us.

Get  
More  
Eggs



Get them all the time—in winter as well as in summer. More eggs mean more profits. Get the most out of your hens by giving them

### Conkey's Laying Tonic

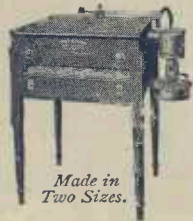
It will insure the maximum egg production. Guaranteed to please you or money back. Prices

2 lbs. 25c; 4 lbs. 50c; 8 lbs. \$1.00. **NOTE**—Add postage if wanted by mail. Weights given are wrapped.

### SUPERIOR HOT-WATER INCUBATORS

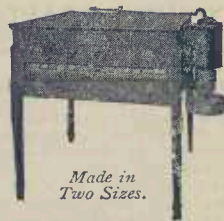
These machines are exactly what the name says. They are heated by hot-water, instead of with hot-air and are “superior” in every detail. The water boiler and tank (tubular) are of heavy-weight copper. Lamp has seamless bowl; burner is best on the market. Incubator case is of wood, attractively finished in golden brown, with brass trimmings (hinges, buttons, etc.), and has double walls, with air space insulation. Are equipped with Standard Cypher's zinc and steel toggle-joint thermostat and knife-edge regulator. Have forced water circulation and are automatic in ventilation. Roomy chick nurseries.

**PRICES AND SIZES**—Built in two sizes: 65 eggs, price complete, \$11.00; 130 eggs (see illustration), price complete, \$16.00. Fully guaranteed.



Made in Two Sizes.

**READ**—Worth the Price of Any Incubator—Every person who buys a Cypher's Incubator or Brooder from us will receive the Cypher's Free Bulletin Service and Expert Advice by Personal Letter on any special subject you want. The Cypher's Co. not only want you to buy their supplies, but they want to help you to be successful and make money. See Cypher's Catalog for full information and list of Bulletins to date.



Made in Two Sizes.

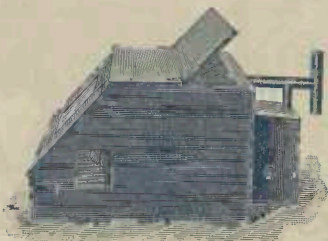
Superior Hot Water.  
Cypher's New Style

Cypher's New Style  
Columbia Hot-Air.

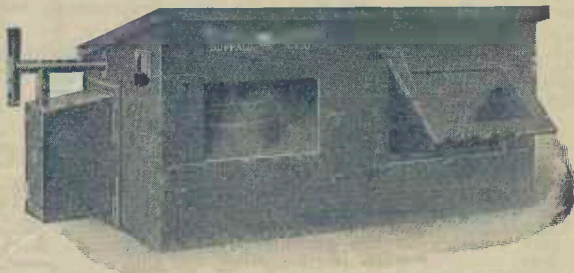
**FREE IF INTERESTED**—If you want to know more about Cypher's Incubators and Brooders we will gladly mail copy of Cypher's 1915 Catalog free.

## Standard Cyphers Combination Brooders.

FOR 1915—FIRE-PROOFED, INSURABLE, SELF-REGULATING.



Cypher's Style "D" Indoor.



Cypher's Style "B" Three Compartment  
1915 Outdoor Brooder.

The Cypher's line of Brooders are recognized everywhere as the best and most practical to date. If you are "handy with tools" you can buy the **Adaptable Hover** and build the balance yourself. But if you must have it done, you will be money ahead and probably have a more perfect brooder if you order **No. A, B or D** complete.

**CYPHER'S 1915 BROODERS**, every size and style, are **self-regulating, self-ventilating and rat-proof**. Chicks are perfectly safe in them during any kind of weather. They are **fire-proof (insurable), easily cleaned and movable**.

The outdoor styles are usable also as colony coops for the growing chicks. They are easily and quickly converted into colony roosting coops by simply taking out the hover, which is made removable for that purpose.

### STYLE B OUTDOOR BROODER.

The best "Foster Mother" made and sold at any price and thousands are in use.

**Dimensions.**—Floor space, 32x62 inches; height, 32 inches in front, 24 inches in rear. Capacity (normal), one hundred newly-hatched chicks; can accommodate one hundred and fifty chicks. **Weight 200 lbs. Price \$20.00**

### STYLE "A" OUTDOOR BROODER.

One of the best sellers on account of the lower price. Same size, design and construction as the first section (left end half) of Style "B." Anyone who is handy with tools can build and join on another apartment for a "feeding and exercising room" to be used when the weather is bad. Capacity, 100 baby chicks. **Weight, 135 lbs. Price, \$16.00.**

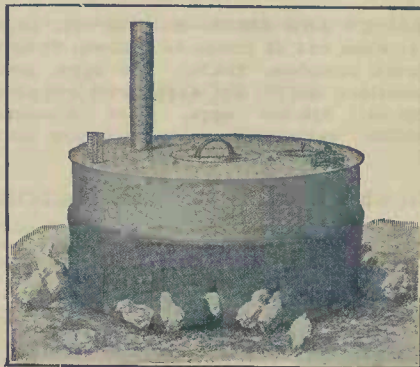
### STYLE "D" INDOOR BROODER.

This is the same in all respects as the Style A outdoor type, except that the upper half is more convenient in shape and construction for indoor use. (See cut.) Size, about 3 ft. square. Can be used anywhere, just so it is under a roof. **Weight, 120 lbs. Price, \$15.00.**

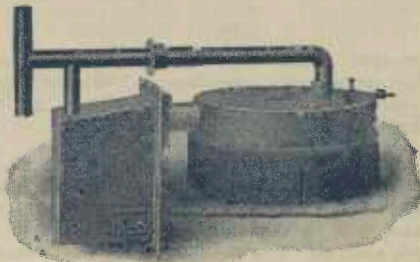
### CYPHER'S ADAPTABLE HOVER

In addition to the Cypher's unequalled Brooders, we are permitted to sell separately their **Adaptable Hovers**, which is the **self-regulating heater and hover** used in all Cypher's Brooders.

This machinery-made, all-metal, guaranteed fire-proof heating and brooding device is suitable to be used anywhere that heat is required for brooding chicks or ducklings. It can be used in a roosting coop, colony house, shed, hen house, barn or other building or in a large box or home-made brooder. Easily adjusted to any use. Capacity 75 to 100 chicks; weight, boxed, 40 lbs. (not mailable, too large). **Price, complete (full instructions), \$10.00.**



Cypher's Portable Hover.



Cypher's "All-Metal" Adaptable Hover.

### CYPHER'S NEW PORTABLE HOVER

For Handy and Economical Brooding of Chicks and Ducklings. Is **Self-Regulating, Self-Ventilating and Indestructible.** (See cut.)

This new style hover is all metal, except the curtains. Lamp is reached from one side, can be easily moved from place to place without disturbing the lamp; capacity 100 chicks.

**Place to Use.**—Was designed expressly for indoor use, in brooder houses and other poultry buildings, in dwellings or in well-built and well-lighted apartments of any kind. Will do excellent work in colony houses, in large-sized brood coops, etc.

**Price, \$10.00; weight, 40 lbs.**

**CYPHERS CATALOG FOR 1915** contains fully illustrated descriptions of these self-regulating, fire-proofed hovers, also of the entire line of Cyphers apartment brooders, etc., etc. Free on request.

## International Sanitary Hover.

The Sanitary Hover was invented and perfected at the Ranocas Poultry Farm, the largest and most successful egg farm in the world. They invented and perfected it because they needed a sanitary, successful, economical brooding device. It is now recommended by thousands of pleased customers.

**SANITARY HOVERS** are as practical for the small backyard poultry raiser as for large poultry plants. They are usable anywhere, ready for business wherever placed. All that is necessary is to place the Hover where you want it and light the lamp, no cutting of holes or building of platforms; no kneeling in mud and dust to get at the lamp.

**IT IS THE WARMEST NEAR THE CURTAIN.**—This causes chicks to distribute themselves around the edge of the curtain, where they have plenty of room and fresh air as well as warmth. No deaths by crowding of the chicks to the center.

**IT IS ESPECIALLY SUITABLE** for use in colony or brooder houses; but it can be used with equally good results in a hen house, tent, barn, stable, piano box, or even a dry goods box. It can be picked up and carried around with ease.

The International Sanitary Hover provides 200 square inches more of hovering space than any other. Gases and fumes from the lamp cannot get under the hover.

This hover is constructed of heavy galvanized iron and is sanitary, vermin and fire-proof. Will last a life time, and give perfect brooding service every day of that time. It is only necessary to lift the thermometer to ascertain the temperature under the hover.

**BEST BY TEST.**—Many tell us that they raise 94, 96, 98 and some even 100 per cent of the baby chicks put under this hover. It has many advantages that the old hen does not have, always warm and ready to "brood" the chicks; "no lice or big feet."

The air is kept wholesome by diffusion through the cloth curtain. There are no drafts under the hover. It hovers 100 chicks and has enough ventilation for 2400 (weight 33 lbs.) Not available.

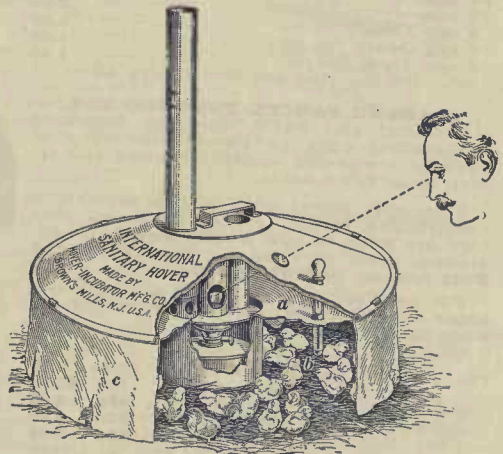
Portland Price, complete, \$9.50 each.



Sanitary Hover in use. Illustration above shows lamp and ventilation system lifted out.

To get at the lamp, just lift it out. To move the hover, just pick it up. To set up the hover, just set it down.

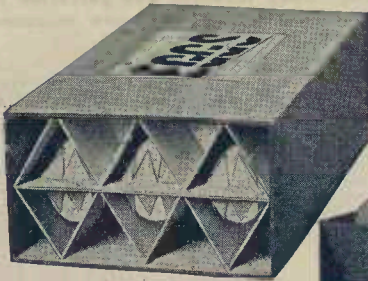
The Sanitary Hover raises more chicks and less trouble than any other hover on earth.



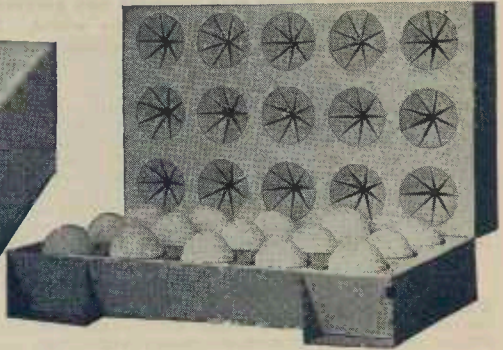
Illustrations showing parts and general construction, simplicity and perfection of the International Hover. Routledge Seed & Floral Co. highly recommend it after thorough testing last season. Baby chicks will leave any other hover to go under this one, they "take to it" like "sweet sixteen to candy."

## Diamond Egg Boxes for Express and Parcels Post

NEW  
STYLE,  
CUSHION  
FRAME,  
LIGHT,  
STRONG,  
AND  
SAFE



OPEN END SHOWING CONSTRUCTION.



### DIAMOND EGG BOXES

The Diamond Egg Carrier is something entirely new and in a class by itself. We ship it to you in the flat, thereby saving on freight or express. The peculiar construction of the box in V-shaped wedges enables us to make it of very light material while still retaining great strength so that a man can stand on them. It is easily set up.

The Diamond Egg Box has several advantages over any other box offered for shipping eggs by mail. A box, no matter what its construction is **NOT SAFE** where eggs set on a **FLAT BOTTOM**. The Diamond "V-shaped" fillers hold the egg in suspension and protect them from breakage. No other box has this feature.

If properly packed, the Diamond Egg Carrier can be dropped a distance of six feet and not harm the eggs. No other light egg box made will stand this test. Packed flat, one dozen to a package, and containing address labels, gum paper and tissue paper.

### DIAMOND EGG BOX FOR "HATCHING EGGS"

| Size         | Doz. Wgt. | Each | Doz.   |
|--------------|-----------|------|--------|
| 15 egg       | 12 lb.    | 15c  | \$1.50 |
| 30 egg       | 21 lb.    | 25c  | 2.75   |
| 25 egg       | 19 lb.    | 30c  | 2.50   |
| 9 egg Turkey | 10 lb.    | 15c  | 1.50   |
| 9 egg Goose  | 14 lb.    | 15c  | 1.50   |
| 12 egg Duck  | 12 lb.    | 15c  | 1.50   |

For 100-egg size use four 25-egg size.

### DIAMOND PARCEL POST EGG BOX.

Practical and **SAFE**, designed especially for sending eggs by Parcel Post to your customers who can empty the cases and return to be filled again.

This new parcel post box is similar in construction to the 15-egg size above, only they are made to hold **Twelve Eggs** with additional cases provided for **Two, Three and Four** and up to **Eight Dozen**.

Put up "flat" in pkgs. of 12 with gummed paper for fastening, and address labels for each box.

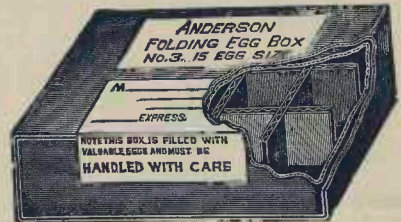
| Capacity.    | Each Empty | Weight Filled | Price |        |
|--------------|------------|---------------|-------|--------|
|              |            |               | Each  | Doz.   |
| 1 doz. S. C. | ¾ lbs.     | 2¼ lbs.       | 15c   | \$1.00 |
| 2 doz. D. C. | 1½ lbs.    | 4½ lbs.       | 25c   | 2.00   |
| 3 doz. D. C. | 2 lbs.     | 6½ lbs.       | 30c   | 2.60   |
| 4 doz. D. C. | 2¾ lbs.    | 8¾ lbs.       | 40c   | 3.00   |

Write for prices by the 100 and for larger sizes.

### IDEAL EGG BOX

Hold 12 eggs; very handy and convenient for private trade. Saves eggs and counting. Your customer returns them so you are nothing out. (Not heavy and strong enough for express or mailing.)

Price—Per doz. 20c (P. P. 1¾ lbs.); 100 for \$1.00 (P. P. 11 lbs.); 1000, \$8.00.



### ANDERSON EGG CARRIERS

This has been a popular egg box for several years. A safe box for the **expressing of fancy eggs, for hatching**. Each egg should be wrapped before dropping into its place. Made of corrugated paper—12 to a package, shipped K. D. in flat.

| Size    | Wgt. Empty   | Each | Doz.   |
|---------|--------------|------|--------|
| 15 egg  | 1 lb. each   | 15c  | \$1.50 |
| 30 egg  | 1½ lbs. each | 25c  | 2.50   |
| 50 egg  | 2¼ lbs. each | 35c  | 3.50   |
| 100 egg | 4 lbs. each  | 60c  | 5.25   |



### SEFTON LIVE CHICK BOX

Made from the best grade of corrugated card board. Shipped in the flat, but quickly set up by anyone. The use of this box has made long distance express shipments of live baby chicks possible and safe.

| Capacity  | Weight        | Each | Doz.   |
|-----------|---------------|------|--------|
| 25 chick  | P. P. 1¼ lbs. | 20c  | \$2.00 |
| 50 chick  | P. P. 2¼ lbs. | 25c  | 2.50   |
| 100 chick | P. P. 3 lbs.  | 40c  | 4.00   |

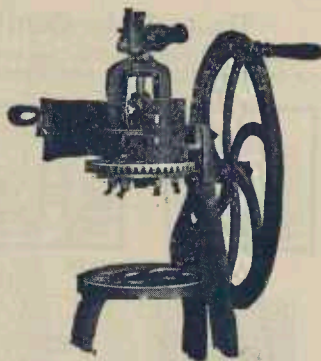
**POSTAGE.**—In ordering above egg boxes by mail or P. P., be sure you add extra money for postage. **RATE TABLE PAGE 1.** P. P. stands for parcel post net **PREPAID.**

**GREEN BONE CUTTERS**

**MANN'S GREEN BONE CUTTER.**—Without any doubt the best and only successful green bone cutter on the market today. The No. 5-B and No. 7-BM are the two best and most popular sellers.

**MANN'S NO. 5-B.**—Has a large balance wheel, making it easy to operate. Should be mounted on a bench. Has four knives, large, solid cylinder, and has the latest patent automatic governing spring feed, which makes it one of the best low-priced bone cutters ever offered **Price \$10.00**

**MANN'S NO. 7-BM.**—The new No. 7-BM is mounted on a strong iron stand, and has patent automatic governing spring feed. Large open-hinged cylinder, giving instant access to all working parts, has six knives, gear guard, anti-clog device, heavy balance wheel and other improvements. (See cut.) **Price \$15.00**

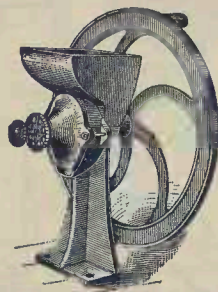


Mann's No. 7 for green bone

**GRINDING MILLS**

**NO. 82 HAND GRINDING MILL.**—In this mill are embodied all the good features of other hand grinding mills to which have been added universal burrs or grinding plates that are quickly adjusted and locked for grinding coarse or fine. This machine will grind any kind of grain or seeds, dry bone, shells, crockery, etc., for feeding to poultry. Has a 16-inch fly wheel and is light running; the capacity is not equalled by any other of the same size. Weight 40 lbs. **Price \$5.50**

**NO. 35 B. HAND OR POWER (1/2 horse power) Price \$10.00**



No. 32 Mill—You need one.

**UP-TO-DATE SHIPPING COOPS**

These coops are really “up-to-date” and will give your customers that impression of you if you use them when shipping. Buyers who pay fancy prices for thorough-bred birds like to see them come in a nice coop—not some old cracker box or oil case. These coops are light but strong. The ends have the cleats nailed on. We ship in the flat to save charges, but it's an easy matter to nail them together, for each part is marked.

| Number | Width      | Length | Height | Each | Doz    |
|--------|------------|--------|--------|------|--------|
| No. 2  | 10 1/4 in. | 18 in. | 24 in. | 40c  | \$4.00 |
| No. 4  | 10 1/4 in. | 24 in. | 24 in. | 50c  | 5.00   |
| No. 6  | 19 1/2 in. | 24 in. | 24 in. | 60c  | 6.00   |

For Parcel Post—No. 2 weighs 8 lbs.; No. 4, 9 lbs.; No. 6, 15 lbs.

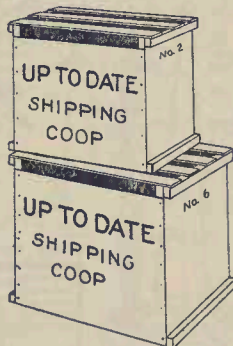
**Capacity.**—No. 2 suitable for single birds or pair Mediterraneanans. No. 4 for Asiatic male, American or Mediterranean pair or small trio. No. 6 for a pen of five birds, any variety.

**AUTOMATIC CHICK GREASER**

(See illustration)—every chick its own doctor. It is the large lice which collect on the heads of young chicks which cause them to droop and die; and formerly the only way was to catch each chick and rub grease on its head; but this slow and tedious process is not necessary since the invention of the Automatic Chick Greaser. The wick around the upper part of the greaser is saturated with Conkey's Head Lice Ointment or with a mixture of two-thirds lard and one-third kerosene (or black oil) and every chick which eats out of the pan will get its head thoroughly greased in a very few minutes. Can be moved from one pen to another.

P. P. 2 lbs.

Price \$1.25



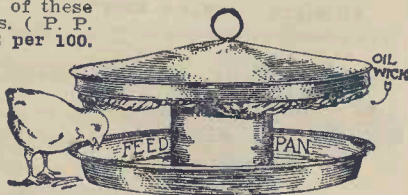
Shipping Coop.

**SANITARY WOODEN PIGEON NESTS**

The nests are made from 10-inch square blocks of redwood with depressions 1 1/4 inches by 9 inches. Being made of redwood they are sanitary and prevent chilling of squabs and eggs. Being made on the square block prevents tipping and leaves no place for mice and rats to work. The size of these nests makes them adapted to all varieties of Pigeons. ( P. P. weight, 20 lbs. doz.) **Prices, 15c each; \$1.50 doz; \$12 per 100.**



Every poultry keeper should have a good spray pump for lice liquid, disinfectant and whitewash — see pages 98 to 101.



Automatic Chick Greaser

**THE UP-TO-DATE POULTRY BOOKS** we offer on page 128 are full of valuable information. A 25c book may make or save you dollars. **CONKEY'S POULTRY BOOK FREE, pg. 123.**



## Up-to-Date Sanitary Drinking Fountains and Feeders

Increase your profits by saving the chicks. Start now by ordering sanitary, economical, up-to-date Fountains and Feeders.

Note.—When wanted by parcel post add postage at weight given. See page 1 for rate table.



O-M Fountain



### FOOD AND WATER CUPS

Made of galvanized iron, strong and durable; wire hangers; hold half pint. For exhibition or shipping cups. Each 15c, doz. \$1.50 (P. P. doz. 4 lbs.)

### O-M CONE TOP FOUNTAINS

Most desirable, new style, pressed, galvanized. On account of "cone shaped top" (see cut) birds cannot roost on them.

| Capacity | P. P. Wt. | Each | Doz.   |
|----------|-----------|------|--------|
| 1 qt.    | 1 lb.     | 25c  | \$2.50 |
| 2 qt.    | 1½ lb.    | 35c  | 3.50   |
| 4 qt.    | 2 lb.     | 40c  | 4.00   |



Stone



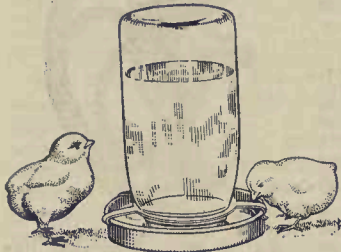
### CYPHER'S DRINKING FOUNTAINS

Pressed out of heavy galvanized iron; will last for years. Easy to clean inside and out. (See cut.)

| Capacity | P. P. Wt. | Each | Doz.   |
|----------|-----------|------|--------|
| 1 qt.    | 1 lb.     | 25c  | \$2.50 |
| 2 qt.    | 1½ lb.    | 35c  | 3.50   |
| 3 qt.    | 2 lb.     | 40c  | 4.00   |

### SANITARY STONE FOUNTAINS

An old and popular style that keeps the water cool; see cut. (Not mailable.) Price, 1 qt. 25c, 2 qt. 35c, 4 qt. 50c.



Perfection Fountain

### PERFECTION FOUNTAIN

This consists of a shallow 6-inch pan and a collar to fit any size Mason jar. You fill the jar, screw on the collar, slip the pan in and turn it over. Simple, sanitary and perfect for small chicks. The best in this style. Price (without jar) 25c each, \$2.50 per doz., prepaid.

### WALL FOUNTAINS

Very desirable for adult fowls; hang up on the wall out of litter and dirt; made of heavy galvanized iron. **CYPHER'S.**—See cut. **O-M**—Same capacity but opening is pressed in; either style. Price, ½ gal. (P. P. 2 lbs.) 40c each; 1 gal. (P. P. 3 lbs.) 50c; 2 gal. (P. P. 3½ lbs.) 75c.



All-Right



Wall Fountain



"Kan't Klog"

### SIMPLICITY "KAN'T KLOG" FEEDER-EXERCISER

The best combined feeder and exerciser we have ever seen. No spring to get out of order. Swinging deflector scatters the grain all around, a little at a time. No. 31, 6 qt., for low houses, \$1.75 each.

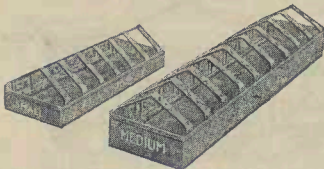
### "ALL-RITE" FOUNTAIN AND FEEDER

(See cut.) This new fountain can be set down, but is best hung up out of the litter. It feeds water, mixed chick feed, etc. It is easy to fill; simply snap out the pan, fill the jar, slip the pan in again and invert; no need of removing the jar from the wire holder. Made to hold the old zinc-top Mason pint, quart or two-quart jar. We do not include jars with the "All-Rite" (everyone has old jars). Price, each 20c; 3 for 50c, prepaid.

### FOOD AND WATER HOLDERS

For Poultry and Ducks of All Ages.—They are especially recommended for use in feeding mash of any kind; steamed or dry alfalfa or sprouted grain. This protected receptacle saves 15 to 25 per cent in food-stuff. The guard lifts out of the pan, making them easy to clean. There is nothing to get out of order. Made of heavy galvanized iron; safe, sanitary, saving and serviceable.

|        | Size          | P. P. Wt. | Price    |
|--------|---------------|-----------|----------|
| Small  | .....4x10 in. | 1¼ lbs.   | 40c each |
| Medium | .....5x18 in. | 2¼ lbs.   | 60c each |
| Large  | .....6x24 in. | 3¼ lbs.   | 90c each |



Food and Water Holders

Equip your poultry houses and yards with these money-saving, sanitary utensils. Don't invite diseases and loss by using old pans, open dishes or wooden troughs.

**SHELL AND GRIT BOX**

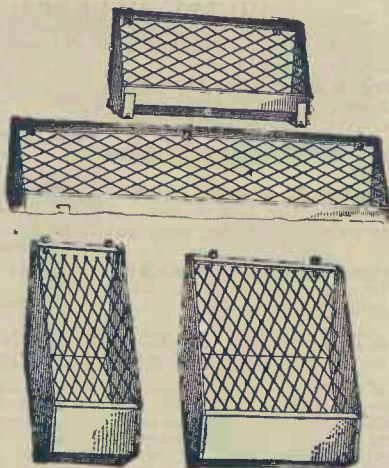
Made of heavy galvanized iron; soon pays for itself in preventing waste. Sanitary, close top self feeders for granulated bone, beef scraps, grit, shells, charcoal, dry mash, etc. If these necessary foods are kept before your fowls they will eat just what their systems require for profitable results; in other words properly balance their rations. (See cut.) Should be hung up out of the litter.

**CYPHERS.**—Three compartments holding 2 qts. each (P. P. 3½ lbs.) **Each 60c; doz. \$6.00**

**NESTO.**—Same style, lighter weight; three compartments, 3 pts. each (P. P. 3 lbs.) **Each 50c; doz. \$5.00**

**O.M.**—Extra strong and well made; same style except the feed trough at bottom is round; 3 section, 2 qts. each (P. P. 4 lbs.) **Each 60c; doz. \$6.00.**

**O.M.**—4 section, 2 qts. each (P. P. 5 lbs.) **Each 85c; doz. \$8.50.**



**Boston Dry Food Hoppers**

During the day the front screen is dropped down against the feed, at night lifted up and hooked—rat proof. Thousands now in use.

**MOE'S NEVER FAIL TRAP NEST**



A solution of all trap nest troubles. See description and prices below.



**BOSTON DRY FOOD HOPPERS**

The use of these hoppers will positively save their original cost every week in the case of adult fowls and every month or less in the case of chicks. During the day the front screen is dropped down against the feed, at night lifted up and hooked to keep the rats out. Thousands now in use. (See cut.) Besides this they will help greatly to keep your fowls and chicks in a healthy condition by insuring them clean food entirely free from filth of any kind. Every poultryman will appreciate this feeder. Made of heavy galvanized iron; with care will last forever.

| Capacity                | Size     | P. P. Wt. | Each   |
|-------------------------|----------|-----------|--------|
| ADULTS—Half Bushel..... | 17x8x13  | 7 lbs.    | \$1.00 |
| ADULTS—One Peck.....    | 17x8x 7  | 6 lbs.    | .90    |
| CHICK—Half Peck.....    | 15x8x 4½ | 4 lbs.    | 1.00   |
| CHICK—One Peck.....     | 29x8x 4½ | 5 lbs.    | 1.50   |



**SANITARY DRY FOOD HOPPER**

Made of galvanized iron, same style as the Shell and Grit Boxes but larger and only two compartments. Generally used for dry mash but equally as good for grain, grit or shell. Thousands are in use.

**NO. 1 LARGE.**—One compartment holding 6 and one 3 qts. (P. P. 4 lbs.) **Each 75c**

**NO. 2 SMALL.**—Two compartments, 2 and 4 qts. (P. P. 3 lbs.) **Each 50c; doz. \$5.00**

**MOE'S NEVER FAIL VERMIN PROOF TRAP NEST**

Made of galvanized iron, light, durable and as the name implies, it never fails. Every nest set up and ready for use when shipped.

**NO. 33,** 12x12x12 in., complete (P. P. 6 lbs.) .....**\$1.00**

**Baby Chicks**

**S. C. White Leghorn**

**Baby Chicks**

We sell "Brownsdale" pure bred egg laying strain of utility single comb white leghorn baby chicks. Let us book your order in advance for delivery in season. Shipped in patent "Baby Chick" boxes that carry them safely.

Price, \$20.00 per 100. Chicks will be sent direct to you from the farm and proper notice given you so you can be on hand to receive them.

**POULTRY MARKERS**

Very necessary for marking the web between the toes of baby chicks; you put leg bands on when they get older.

**OTIS & MOE.**—About the same style as Petteys, punches a clean hole, also has a cigar end clipper and eye for attaching to key chain.

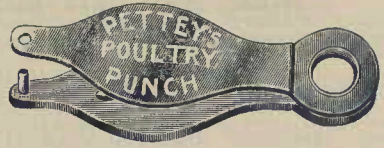
Price, postpaid, 25c

**CYPHERS' PERFECT MARKER** (see cut).—Large and strong, easy to use. Postpaid 50c

**RELIABLE MARKER.**—Same style as Stern's without the finger loop. Postpaid 20c

**PETTEY'S PUNCH** (see cut).—New style. Postpaid 25c

**STERN'S POULTRY MARKER.**—Latest and best. Finger hold or loop handle, most convenient (see cut). Postpaid 35c



Cyphers' Poultry Marker

**LATEST AND BEST LEG BANDS FOR POULTRY AND PIGEONS**

Keep a supply of Leg Bands on hand at all times; this is the only safe way to mark your different birds so you can tell certain stock or strains. Of course every bird must be marked with a band before it can be entered in a show.

**WHAT SIZE.**—When you order, tell us size or what kind of birds you want them for and whether male or female. **DON'T FORGET.**

**LEADER** (see cut).—Latest and best adjustable leg band out. Has neat, compact and smooth fastening, with no catching points; easily attached and is absolutely secure.

Prices, postpaid, any size, 12 for 15c, 25 for 30c, 50 for 50c, 100 for 80c. (State size.)

**OPEN PIGEON OR CHICK BANDS.**—Same price as Leader (see cut).

**SEAMLESS PIGEON OR BABY CHICK BANDS.** Price, postpaid, 12 for 30c, 25 for 50c, 50 for 85c, 100 for \$1.50. (State size.)

**DOUBLE CLINCH.**—A desirable band, very safe; no exposed corners, ends or loops; has double fasteners (see cut).

Prices, postpaid, any size, 12 for 15c, 25 for 30c, 50 for 50c, 100 for 80c. (State size.)

**MOE'S SELF LOCKING LEG BAND.**—You simply push ends together to lock it and it must be destroyed to remove it. Far superior to the leg bands requiring a sealing tool to seal them. Same price as Double Clinch. (State size.)

**SPIROL COLORED.**—Durable, Practical, Economical. (See cut.) Provide instant identification without handling the birds. You can identify birds as far as you can distinguish colors, which will tell the yearling hens and which are older, your different matings, and so on. Fine for baby chicks. **Eight colors: Red, White, Pink, Amber, Blue, Black, Ruby, Green.** Slipped on like a key ring; cannot drop off.

Prices 12 for 20c, 25 for 35c, 50 for 60c, 100 for \$1.00. (State size wanted.)



Open Pigeon Band



Stern's Poultry Marker



Moe's Self Locking



Double Clinch



Spirol Colored



Leader Adjustable Leg Band



**CAPONIZING TOOLS**

Poultrymen can double their profits by caponizing. The operation is very simple; the instructions are so full and explicit that any man, woman or child, after a careful reading, will be able to perform the operation.

**Philadelphia Set** (see cut).—Complete with instructions. Cardboard box, postpaid, \$2.50; wooden case, velvet lined, \$2.75.

## INCUBATOR HYGROMETERS

"Moisture Indicators"

Millions of chicks die in the shell every year, for the want of proper moisture conditions. The importance of a correct percentage of moisture during incubation has made the "Tyco's" Incubator Hygrometer as necessary as the "Tyco's" Incubator Thermometer. Neither takes the place of the other, but together they give the practical poultry raiser all the facts required for successfully regulating the heat and moisture of the incubator. Descriptive pamphlet on request.

**Hygrometer, with full instructions, postpaid \$1.50; with Tyco's 75c Incubator Thermometer, only \$2.00.**

## THERMOMETERS

We sell the "Tyco's," recognized as the most dependable.

### FOR INCUBATORS—

**No. 22 "Tyco's."**—Very popular. Generally suspended on string or wire on level with eggs. (Cypher's style.)

**Postpaid 65c; wire hanger 10c extra Tyco's Certified.**—Same style as No. 22. Scale is etched on glass tube as well as metal back. "Certified correct," worth the price. **Postpaid \$1.00**

**No. 20.**—Tested, for incubators, used in Buckeye and other incubators.

**Postpaid 65c**

**No. 22½.**—Similar to No. 20 with folding legs, adjustable; to be set up in egg tray. **Postpaid 75c**

**Postpaid 75c**

### FOR BROODERS—

**No. 29.**—New style and most convenient; temperature readable from above the hover. Used in both Cyphers and Buckeye Brooders.

**Postpaid, each 60c; 2 for \$1.00**  
**Cyphers Portable Hover. Price, 60c**  
**Sanitary Hover. Price, 60c**

**HOT BED.**—Round and pointed tube protected with metal and wood. For plunging in hot beds. **Postpaid \$2.00**

## LAMPS

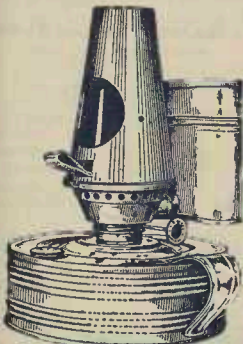
**OAKS HYDRO SAFETY.**—Made especially for incubators and brooders. They have a water jacket to keep oil and burner cool and are perfectly safe. Economical and satisfactory in every way.

**No. 1.**—7½ in. high; ¾ in. wick (P. P. 1½ lbs.) ..... **\$1.00**

**No. 2.**—8 in. high; 1 in. wick (P. P. 2 lbs.) ..... **1.50**

**No. 3.**—9 in. high; 1½ in. wick (P. P. 3 lbs.) ..... **1.75**

**OAKS.**—Large descriptive catalog on request.



Oaks Safety Lamp

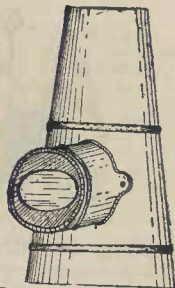
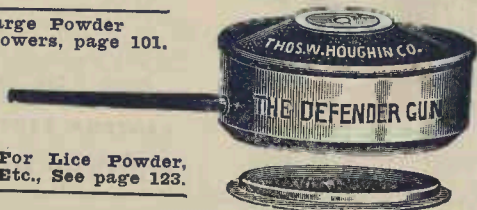
**NOTE.**—We keep in stock miscellaneous supplies for incubators, brooders, etc. Ask for price of stock wanted.

**EGG TESTERS**  
**X-RAY** (See cut).—This egg tester is made to use on a lamp and will fit the ordinary No. 2 burner; very convenient and good. (P. P. 1 lb.) **Price 35c**

**POWDER GUNS**  
**DEFENDEE.**—(See cut.) **10c; postpaid 15c**  
**JUMBO.**—Larger and better **25c; postpaid 30c**

Large Powder Blowers, page 101.

For Lice Powder, Etc., See page 123.



X-Ray Egg Tester



Tyco's No. 22



No. 29

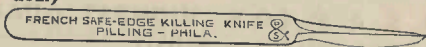


No. 20

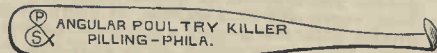
## NEST EGGS

**NEW MEDICATED.**—Answers as a nest egg, also an insecticide. Keeps lice out of the nests and off the hen. Non-breakable. Each egg wrapped with paper and full instructions. **Each 10c; 3 for 25c; 12 for 75c (P. P. 2½ lbs. doz.)**

**LIME NEST EGG.**—Better than China eggs; non-breakable. More natural. **Each 5c; 3 for 10c; 12 for 30c (P. P. 2 lbs. doz.)**



**Pilling French Poultry Knife. Postpaid 50c**



**Angular Killing Knife. Postpaid 50c**

## "Highest Quality" Poultry Foods

At special prices direct to Poultry Raisers: 5 bags assorted foods at 500-lb. prices. Prices subject to important market changes. Write for quantity price when ready to buy.

The planter who buys better seed get better crops. He who fertilizes his soil—manures it well—is amply repaid in the size of his harvest. The poultryman who feeds the Highest Quality poultry foods, makes more profit than he who is content with screenings, although his feed costs a lot more.

It's the same in everything. Buy goods that cost but little to produce, and you get but little for your money. Good grain, good eggs, good clothing are worth all the money you can pay for them.

The immense quantity of poultry foods we handle enables us to sell our "Highest Quality" foods at very reasonable prices. Don't practice false economy by buying low-priced inferior stock.

### "HIGHEST QUALITY" CHICK FEED

Prepared especially for Baby Chicks, Turkeys, Pheasants, etc.

Put up for us under the "Pure Food Law" by one of the largest manufacturers of poultry foods in the United States, and is the "highest grade" Chick Food made; always clean and sweet.

If you have been buying some of the "so-called" chick foods sold in Portland and elsewhere, send to us for our "highest quality" Sterling Chick Food—a complete food (with the exception of greens or grass), for baby chicks from shell until eight or ten weeks old. This mixture embraces the best combination of seeds, grains, foods, etc., that can be compounded for the purpose required. It gives the chicks quick growth and keeps them in good health.

It should be fed dry and the chicks made to work for it. It is clean to handle, always ready, and is the cheapest food you can buy or prepare.

Price, 5 lbs. 25c; 12½ lbs. 50c; 100 lbs. \$3.00; 500 lbs. @ \$2.75

### R. S. & F. CO.'S "HIGHEST QUALITY" SCRATCH FOOD

A complete ration for large chicks or full grown poultry. It is a perfectly balanced feed, composed of a variety of clean grains mixed with the proper amount of prepared beef, fresh granulated bone, charcoal, grit and shell. Will keep your poultry in perfect condition. Makes an excellent and profitable food. You can't mix it as cheaply as we sell it, if you mix it right.

Price, 5 lbs. 25c; 10 lbs. 35c; 50 lbs. \$1.35; 100 lbs. \$2.50; 500 lbs. @ \$2.35.



### POULTRY PEPPER

A good tonic and invigorator. Ground.

Price, 1 lb. 25c; 5 lbs. \$1.00



### GRANULATED BONE—"SPECIAL"

We offer only highest quality, white, pure and clean. The fresh bone contains about 40 per cent water and 12 per cent grease; 52 per cent of matter which your fowls do not need. The granulated bone we offer is made from fresh, green bones, from which the moisture and grease have been taken, leaving the phosphates, lime and protein. Should be kept before your chickens at all times. Feed in a Sanitary Shell and Grit Box.

Price, 6 lbs. 25c; 14 lbs. 50c; 100 lbs. \$3.00; 500 lbs. @ \$2.75

### BEEF SCRAPS

Our "Highest Quality" beef scraps are rich in materials which make bone, muscle and lean meat. They insure health, thrift and vigor, and satisfy the natural craving of the bird's system for flesh-food in some form. Rich in protein, pure and free from any adulteration. Can be fed dry or with cooked rations. Don't waste any, feed in one section of your Sanitary Shell and Grit Box.

Price, 5 lbs. 30c; 10 lbs. 50c; 50 lbs. \$2.25; 100 lbs. \$4.00; 500 lbs. @ \$3.85

### GRIT—Best Grade

Every poultry raiser should keep a supply of this grit in each pen. Baby chicks and ducklings must have it. Made in three sizes chick, pigeon or broiler and hen size. We always send hen size unless otherwise ordered.

Price, 5 lbs. 10c; 14 lbs. 25c; 100 lbs. \$1.00; 500 lbs. at 90c.

### POULTRY SHELLS, CRUSHED

These should be within reach of your hens at all times. Not straight Oyster Shells, but a combination of Oyster, Sea and Clam Shells that is rich in lime material for egg shells. Gives good results and is much cheaper. Put in one section of your Sanitary Feeder.

Price, 5 lbs. 10c; 12 lbs. 25c; 100 lbs. 85c; 500 lbs. at 75c.

EASTERN OYSTER SHELL 100 lbs. \$1.25

### POULTRY MUSTARD

Ground fine, 1 lb. 20c; 6 lbs. \$1.00

**IMPORTANT NOTICE TO POULTRY KEEPERS.**—We want your trade direct—not the dealer's, therefore give you strictly wholesale prices in 5, 10 and 20-bag lots.

**CLOVER OR ALFALFA MEAL**

The best substitute for green food for winter feeding; helps keep the egg basket full; mixed with the soft feed is good for large or small chicks; endorsed by leading experts.

Price, 1 lb. 10c; 10 lbs. 50c; 100 lbs. \$1.50

**CHARCOAL**

Our Granulated Charcoal is prepared especially for poultry; no dust; a good thing for bowel trouble, sour crop and indigestion; a health preserver. State size wanted **A** for mash, **B** for chicks, **C** for large chickens or hens.

Price, 1 lb. 10c; 3 lbs. 25c; 10 lbs. 75c; 50 lbs. \$2.00; 100 lbs. \$3.75.



**Cyphers' Chick and Poultry Foods**

This season we shall endeavor to keep in stock at all times Cypher's Standard Poultry Foods and will supply those who ask for it, as far as possible; but should we be out of Cypher's, instruct if we can send any other kind to save delay.

Note.—Let us know in advance what you want and we will order it in our next car of Cypher's Foods.

Cyphers' Booklet—Foods and Feeding—is full of valuable information. Tells What to feed, When and How and why "Cyphers'" is best Free. 2c stamp for postage.

**CYPHERS' CHICK FOOD**

**A Complete, Scientifically Compounded Food for Young Chicks. No Weed Seeds, By-Products or Grit. Is Composed Solely of Sound, Sweet Grain.**

Cypher's Chick Food—the genuine article—is put up in sealed bags to prevent substitution and to protect the interests of thousands of earnest men and women who year after year are raising chickens the "Cypher's Company Way."

Prices, 5 lbs. 25c; 12 lbs. 50c; 50 lbs. \$1.60; 100 lbs. \$3.00.

**CYPHERS' DEVELOPING FOOD**

**For Promoting the Growth of Young Stock. A Carefully Balanced Dry Grain Ration.**

As its name implies, this is a special dry grain mixture intended for properly maturing chicks after they are ready to be weaned from Chick Food, and to carry them along to the age when it is desirable to place Scratching and Laying Mash before the pullets.

Prices, 5 lbs. 25c; 12½ lbs. 50c; 50 lbs. \$1.50; 100 lbs. \$3.00.

**CYPHERS' FATTENING MASH**

**Specialy Designed to Promote Rapid Formation of Firm, Tender Flesh.**

To secure the highest market price the fowl must be "finished"; it should have a liberal supply of soft, tender meat on its frame, and this can be obtained only by the finishing or fattening process.

Cypher's Fattening Mash will produce results that cannot be obtained by any other method.

Prices, 12 lbs. 50c; 50 lbs. \$1.60; 100 lbs. \$2.85; 500 lbs. \$2.75.

**CYPHERS' PIGEON FOOD**

In compounding a food for pigeons the proper selection of various grains is of great importance. The peas it contains should be of a certain age. The wheat must be red, never white. The proportions of millet, hempseed, kaffir corn and all other materials that enter into it must conform to the known needs of the birds and be absolutely sweet and free from must, otherwise there is trouble.

It is impossible for any feeder to purchase in this market materials of this kind and quality and assemble them in the proper portions at as low a price as we offer Cypher's sealed-bag brand.

Price, 5 lbs. 25c; 12 lbs. 50c; 50 lbs. \$1.75; 100 lbs. \$3.25.

**CYPHERS' SALT CAT (for Pigeons)**

This preparation possesses aromatic and tonic properties of such roots, herbs and seeds as gentian, anise, caraway, cummin,

and coriander; also bone, crushed oyster shell, granulated charcoal, crushed limestone, rock salt, sulphate of iron, etc. It aids digestion, invigorates the system and promotes good health. It is put up in brick form, which keeps the birds busy picking at it, and prevents waste. Crumble the salt cat for young birds.

Prices, per brick, 25c; doz. \$2.50. Mailing weight 1½ lbs. each.

**CYPHERS' GROWING MASH**

**An Easily Assimilated Food for Hopper Feeding. Promotes Rapid Growth of Bone and Muscle.**

This food contains ingredients not found in cracked grain mixtures—and it is these extra ingredients that fill out the ration and produce the desired result in the production of bone and muscle.

It should be remembered that when the object is to induce the rapidly growing birds to consume the maximum amount of food, a variety must be furnished. We recommend the use of Growing Mash in connection with Developing Food until the chicks are three months old, when the Developing Food should be replaced by Scratching Food.

Prices, 12 lbs. 50c; 50 lbs. \$1.60; 100 lbs. \$3.00.

**CYPHERS' LAYING MASH**

**A Balanced Ration of Ground Grains and Blood Meal, Ready Mixed for Hopper Feeding—Promotes Health—Increases the Egg Yield.**

CYPHER'S LAYING MASH is not in any sense a condiment or an egg stimulant. On the contrary, it is strictly a FOOD—a palatable, highly nutritious, balanced egg ration, ready mixed for the daily mash, and is manufactured to meet the demand of poultrymen.

Prices, 12 lbs. 50c; 50 lbs. \$1.60; 100 lbs. \$3.00.

**CYPHERS' FERTILE EGG MASH**

**A Properly Balanced, Bulky Mash to Secure the Maximum Number of Fertile Eggs.**

This food has for its special object the production of well-fertilized eggs in large numbers—eggs that possess in abundance, also in proper proportions, the rich materials needed to develop and feed the chick embryo so that the chick at hatching time will be large, vigorous and in perfect health.

May be fed dry, in hoppers, or can be used as a wet mash, feeding it in this form once a day.

Prices, 12 lbs. 50c; 50 lbs. \$1.50; 100 lbs. \$2.85.

**THIS YEAR THE CYPHERS CO. is manufacturing their poultry foods ON THIS COAST. Write for quantity price when ready to buy.**



## A New Poultry Food

### PACIFIC PIONEER FISH MEAT MEAL

Far superior to Beef Scraps as an egg-producing food.

Contains 28 per cent more egg-laying protein than beef scraps, which makes it cheaper to feed, as it is not necessary to use so much of it to produce desired results. In addition to this advantage, our fish meat meal contains no hair, wool, horn, etc., which ingredients are so often found in beef scraps, and which kill off thousands of laying hens and baby chicks each year. The great advantages to be found in the use of Pioneer fish meat meal are as follows:

**More eggs than from any brand of beef scraps.**

**Better health and less mortality among poultry.**

**Absolutely no fish flavor in either eggs or meat of poultry fed on our fish meat meal.**

**Cheaper to feed—three-quarters of a sack of our fish meal will go as far as a whole sack of beef scraps and give better results.**

A very large California breeder says: "Once a poultry-raiser has used Pioneer Fish Meat Meal, and noted the wonderful results from it, he will never use another sack of beef scraps."

Prices—5 lbs. 25c; 10 lbs. 50c; 50 lbs. \$2.00; 100 lbs. \$3.75; 500 lbs. @ \$3.65.

## Blatchford's "Mammoth Chick" Milk Mash

Start right this year and save every chick hatched. Keep this nutritious milk mash before them (in galvanized feeders.)

Bowel trouble cannot exist with your chicks when you feed Blatchford's Milk Mash. This "equal-to-milk" feed puts a "lively scratch" into each little leg, keeps the diarrhoea-bogey away from your chicks and the worry-bug away from you. Do you wonder that chicks grow rapidly, healthily and profitably? It's the surplus nourishment that does it.

Blatchford's Milk Mash is a perfect substitute made purposely for little "new" chicks and for raising "milk-fed" poultry.

Chicks started on this mash are never bothered with diarrhoea. It nourishes the same as whole milk and more than saves its cost by raising all your chicks.

It is fed dry in a feeder just as it comes from the sack. In addition feed "Chick Food" in litter.

Broilers raised on it grow more rapidly and vigorously and command higher prices than others on account of their size and the choice quality of meat.



Big, tender, juicy birds, early on the market, tempt the housewife and bring fancy prices and a fat bank account. **Get your share of this business.** Try it—on "Blatchford's money-back guarantee."

Full directions free.

Price, 4-lb. carton, 25c; 25-lb. sack, \$1.25; 100-lb. sack, \$4.00.

Descriptive matter and testimonials on request.

**PAYNE'S SCOUR CURE.**—A new remedy that comes to us highly recommended. Sure cure for scours of any kind, in calves, cattle, horses, sheep, swine or poultry. Price, post-paid, \$1.00.



## Blatchford's Calf Meal

A perfect substitute for milk. As rich as whole milk; one-half as expensive. Sell your cream and use Blatchford's Calf Meal. A pound makes one gallon of perfect milk substitute equal to pure milk for raising calves. Prevents scouring and insures early maturity. Free 16-page booklet "tells all." If interested, write, a postal will do.

Blatchford's Calf Meal is made exclusively and solely for this purpose. It is more rich and nutritious than the best whole milk, and farmers claim that it grows calves faster than any other feed. Full directions for feeding with each sack.

Prices, 25 lb. sack, \$1.25; 50 lb. sack, \$2.25; 100 lb. sack, \$4.00.

**FREE BOOKLET.**—"How to Raise Calves Cheaply and Successfully With Little or No Milk." 16 pages, illustrated, free on request.

## Conkey's Guaranteed Poultry Remedies

**READ THIS.**—We handle 2 to 3 carloads a year of these celebrated remedies which have built their reputation upon the scientific basis of one remedy for each disease.

A "Cure All" is not made by the Conkey Company. Each remedy is intended to serve one special purpose and serve it well. These goods are absolutely guaranteed and we offer them to you on this basis: If they fail to satisfy you in any particular, your money will be refunded to you cheerfully.

### CONKEY'S 50c POULTRY BOOK—FREE

Limited space here will not permit us to describe all of these remarkable remedies, but we will gladly mail a copy of Conkey's 72-page Poultry Book, which not only fully describes these remedies, but contains 60 pages of practical and valuable information on FEEDING, CARE and HOUSING of POULTRY.



- |                        |                           |
|------------------------|---------------------------|
| Roup Cure,             | 25c, 50c, \$1.00, prepaid |
| Canker Special Remedy, | 50, or 60c prepaid        |
| Roup Pills, Special,   | 50c prepaid               |
| Bronchitis Remedy,     | 50c prepaid               |
| Blackhead Remedy,      | 50c prepaid               |
| Cholera Remedy,        | 25c and 50c prepaid       |
| Gape Remedy,           | 30c and 55c prepaid       |
| Chicken Pox Remedy,    | 30c and 55c prepaid       |
| Lice Fix, New,         | 50c prepaid               |
| Limber Neck Remedy,    | 50c, or 60c prepaid       |
| Scaly Leg Remedy,      | 30c and 55c prepaid       |
| Rheumatic Remedy,      | 50c, or 60c prepaid       |
| Poultry Laxative,      | 25c, or 30c prepaid       |
| Poultry Conditioner,   | 25c, or 35c prepaid       |
| Poultry Worm Remedy,   | 50c prepaid               |
| Poultry Flea Salve,    | 25c, or 30c prepaid       |
| Sulphur Candles,       | 10c, or 15c prepaid       |

**CONKEY'S WHITE DIARRHOEA REMEDY.**  
—Save your chicks by putting it in their drinking water.

**CONKEY'S HEAD LICE OINTMENT.**—Save your little chicks from the ravages of the deadly head lice. Absolutely harmless to the little chicks. Put up in tubes. Easy to apply.  
Price, 10c and 25c prepaid

**CONKEY'S LICE POWDER.**—It is positive death to lice, ticks, etc. Equally effective for lice on setting hens and young chicks. **Gets them all.** Cleans up the coop. Absolutely harmless to even the smallest chick. Easy to apply and does the business or your money back. Get a package today. **Prices (not prepaid):** 3 oz. pkg. 10c; 1½ lb. 25c; 4 lbs. 50c; 8 lbs. \$1.00; 25 lb. pail \$3.00. Note.—Weights given wrapped for mail, add postage.

**CONKEY'S LICE LIQUID.**—A powerful liquid that will destroy the thousands of red mites that live in the cracks and crevices of the house and nests in the day and swarm the fowls' bodies at night. You can't reach them with a powder. Paint or spray the roosts, nests and walls. **Prices:** 1 qt. can 35c (P. P. 3¼ lbs.); 2 qts. 60c; 1 gal. \$1.00; 5 gals. \$4.00 (not mailable).

**CONKEY'S LAYING TONIC (Poultry Tonic).**—It insures the maximum egg production both summer and winter. Guaranteed to please you or money back. **Prices (not prepaid):** 2 lbs. 25c; 4 lbs. 50c; 8 lbs. \$1.00. **NOTE.**—Add postage if wanted by mail. Weights given are wrapped.

**CONKEY'S DOG REMEDIES—**  
**Mange Remedy.**—An absolute cure.  
Price 50c; 60c prepaid

**Distemper Remedy.**—This is an excellent remedy for this terrible disease.  
Price 50c; 60c prepaid

**Dog Tonic.**  
Price 50c; 65c prepaid

**Worm Drops.**—Absolutely safe.  
Price 50c; 65c prepaid

**Pi-no** is a valuable disinfectant and germicide for the dog owner. Very agreeable pine odor.

**Prices:** 1 pt. 50c, prepaid 60c; 1 qt. 75c; 2 qts. \$1.00; gal. \$1.50 (not mailable).

## Guaranteed Stock Remedies

Illustrated and up-to-date book is priced at \$1.00 (with each car of Conkey's Remedies postage.)

...very best; to be applied  
...; qt. 75c; ½ gal.

...stage 10c

...90c;



## BIRDS

We are the largest importers and dealers in Birds and Gold Fish in the Northwest. This department of our business has grown rapidly and we now carry large and complete stocks of supplies and foods and all birds in their season.



### Canary Birds

**Note.**—Do not compare our prices with the irresponsible bird fakers, who sell for little prices and supply inferior stock and females for males, etc.

**AMERICAN BRED ROLLERS.** Healthy, hardy, well-shaped birds, fine singers; all colors. **MALES**, \$2.50 to \$3.50 each. **FEMALES**, \$1.00; Selected deep yellow, \$2.00.

**HARTZ MOUNTAIN ROLLERS (Imported).** From the Hartz Mountains, Germany. Beautiful and incessant singers, hardy and thrive anywhere. Their cheery song is like sunshine to the soul; their bright plumage, active ways and cheerful dispositions make them the favorites and most popular. **MALES**, \$3.50 to \$5.00 each. **FEMALES**, \$1.50 to \$2.00 each.

**ST. ANDREASBERG (Imported.)** These are world-renowned and the sweetest singers. They are given three to six months' musical training to develop the long trills, flute notes, etc. **MALES**, \$7.50 to \$10.00 each. **FEMALES**, \$2.00 to \$3.00.

### Parrots

We handle more young parrots than all other Northwestern dealers combined. The young parrots arrive during July and August, but we aim to have stock on hand at all times. Price of **trained talkers** on request. The following birds are hand-raised:

**MEXICAN DOUBLE YELLOW-HEADED.**—These make the excellent talkers, learn quickly and make great pets, large size, green plumage, yellow on top and back of head, red-tipped wings and blue feathers, in wing and tail.  
Each, \$15.00 to \$20.00

**PANAMA PARROT.**—Make good talkers, very large size, bright green plumage with red and blue in wings and tail.  
Each, \$15.00 to \$25.00

**CUBAN PARROT.**—Medium size, green plumage, red tips on wings, light face, gentle, fine pets, good talkers. Each \$7.50

**MEXICAN RED-HEADED PARROTS.**—Medium size, trim and active, make fair talkers, gentle. Green plumage, bright red on head, blue in wing and tail.  
Each, \$7.50 to \$10.00



### Bird Books

**BIRD BOOKS.**—Illustrated books on care and breeding—see page 128.

... matter and testi.

### Paroquets

**AUSTRALIAN SHELL PAROQUETS.** A bird that comes to us highly recommended. Sure called Lovebirds, look like a rattle, cattle, horses, sheep, swine or poultry. Price, post-parrot, a little larger than the other, very intelligent. Each \$5.00;

**YELLOW SHELL**  
plumage a  
pets.

**RING**



### Blatchford's Calf Meal

A perfect substitute for milk. As rich as whole milk; one-half as expensive. Sell your cream and use Blatchford's Calf Meal. A pound makes one gallon of perfect milk substitute equal to pure milk for raising calves. Prevents scouring and insures early maturity. Free 16-page booklet "tells all." If interested, write,

## BIRD CAGES, EXTRAS, ETC.

We regret that limited catalog space will not permit our illustrating our bird cages and extra parts. We invite all who can to call and see the largest stock in Portland.

Please write us for special information.

**BRASS.**—Neat and well made. Our leading seller. WITH GUARD (which keeps the birds from throwing seeds and dirt out of the cages), 9½x6½ inches (floor), \$2.25; 10½x7½ inches, \$3.00; 10¼x9¾ inches \$3.50. WITHOUT GUARD, \$1.75, \$2.00 and \$2.25 respectively.

**BRASS, Mission, Globe and Fancy Designs,** with or without patent bottoms, with cleaning drawers, guards, etc., \$4.50 to \$6.50 and up.

**ENAMELED,** with brass guards, 10x7 and larger, low-priced, but good, \$2.00 to \$2.75 each. Without guards, \$1.00 to \$2.00 each.

**BREEDING CAGES.** All complete. No. 4 Single, 17x9x13 inches, \$2.25. No. 3 Double, 19x10x14 inches, \$2.75. No. 2 Double, 22x11x16 inches, \$3.25. No. 1 Double, 25x12x16 inches, \$3.75.

**Food and Water Cups.**—Opal or clear glass, open or closed top. Each 10c; postpaid 15c.

**Brass Suspension Springs.**—10c postpaid; with chains, 30c.

**Brass Wall Brackets or Cage Hooks.**—25c to 75c each; postage, 10c extra.

**Cage Swings.**—10c each; postpaid, 15c.

**Nesting Hair.**—5c package; postpaid, 10c.

**Nests.**—Wire or willow, 10c; postpaid, 15c.

**Wooden Perches.**—5c each; postpaid, 15c.

**BIRD BATH HOUSE.**—New.—White enameled bottom, glass sides and top, 4 inches square. Fill the bottom with warm water, open cage door and hook bathhouse before it. “His Majesty” can go in and take his bath when he pleases and cannot splash water outside. Price, each 50c. (P. P. weight, 1½ lbs.) Add postage. **Bathing Dishes.**—Glass, 10c; opal, 15c. (P. P. weight ½ lb. packed); add postage.

## BIRD SEEDS, FOODS AND REMEDIES

We are making a specialty of bird foods and seeds and our rapidly increasing trade shows that the public appreciates the opportunity to get “High Quality” foods and remedies of “Merit” for their pets. A trial will convince anyone of the superiority of our “H. Q.” (HIGHEST QUALITY) Imported Bird Seeds.

**H. Q. IMPORTED BIRD SEED.**—Our own special mixture for imported Hartz Mountain and St. Andreasberg Canaries. Contains no hemp, but the correct amounts of Imported Canary, Sweet Rape, Millet and Maw. Put up in sealed 1-lb. cartons only, containing Cuttle Bone and Bird Sand. Price, any quantity, 20c per lb. Cannot be sold for less on account of advance since the war.

Ordinary Mixed Bird Seed. 15c lb.  
 H. Q. Imported Canary Seed, re-cleaned. 20c lb.  
 Hemp Seed (very fattening). 10c lb.  
 Rape Seed, common. 10c lb.  
 H. Q. Imported Sweet German Rape. 20c lb.

Easily detected by the sweet taste.

**BY MAIL.**—If you want above seeds by mail add postage to cover at parcel post rates. see page 1.

**TURKISH MAW SEED.**—Canaries are very fond of it. Should be fed sparingly.

Bird Sand, silver washed. 2½-lb. cartons, 10c  
 Crystal Grit, very fine. 5c lb.; 6 for 25c

Cuttle Bone, high grade, large size.  
 Each 5c; postpaid, 10c; with patent fasteners, 15c.

Mixed Parrot Seeds. 15c lb.; 2 for 25c  
 H. Q. Sunflower Seeds. 15c lb.; 2 for 25c  
 Corn for Parrots. 10c lb.; 3 for 25c  
 Gravel for Parrots. 5c lb.; 6 for 25c

**BIRD MANNA.**—Food and medicine combined. A good conditioner. Comes in round cakes. Fastens on the wires.

Per cake, postpaid, 15c

## Max Geisler's Bird Foods and Tonics

used them. Our trade is rapidly increasing. Full

**Q. Vegetable Extract,** for blood tonic reducer. Per vial 25c; postpaid 30c.

**Mite Exterminator.** Per vial 15c.

(non-poisonous). Pack-

mixed  
 and  
 ar-

## Philadelphia Bird Co.'s Remedies

Full directions and information with each remedy.

|                                |                    |                                              |                         |
|--------------------------------|--------------------|----------------------------------------------|-------------------------|
| <b>Ant Eggs.</b>               | 10c; postpaid 15c  | <b>Nesting Food.</b>                         | 25c, postpaid, 30c      |
| <b>Bird Manna.</b>             | postpaid 15c       | <b>Moulting Pepper.</b>                      | 25c; postpaid 30c       |
| <b>Bird Bitters.</b>           | 25c; postpaid 30c  | <b>Mite Exterminator, powder.</b>            | 25c; postpaid 30c       |
| <b>Bird Orange Color Food.</b> | 25c; postpaid 30c  | <b>Parrot Plumage Restorer.</b>              | 25c; postpaid 35c       |
| <b>German Song Restorer.</b>   | 15c; postpaid 20c  | <b>Parrot Tablets (for feather pulling).</b> | 25c                     |
| <b>Mexican Salve.</b>          | 25c, postpaid, 30c | <b>Red Bird Gravel.</b>                      | Pint, 10c; postpaid 20c |

## Spratts Dog and Cat Foods and Remedies

Full directions and instructions on each package.

Your dog is your best friend and is entitled to kind treatment and good care. For the ailments to which they are subject you will find nothing better than the following:



**DOG CAKES.** A staple and constant food for all breeds of dogs, known and recommended the world over. 3-lb. carton 25c (add postage); 25-lb. sack, \$2.25; 50-lb. sack, \$4.50; 100-lb. sack, \$7.50.

**PUPPY BISCUITS.** A complete food for puppies from 1 to 6 months old. 3-lb. carton, 25c; postage extra.

**PUPPY BONE MEAL.** 3-lb. pkg., 25c.

**DOG SOAP (White).** Kills lice and fleas, prevents skin diseases and leaves the coat smooth and glossy, contains no tar, nicely perfumed. Per cake, 25c, postpaid, 30c.

**Alternative Cooling Tablets.** For heated blood, etc. Postpaid 50c.

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**Diarrhoea Tablets.** To relieve Diarrhoea. Postpaid 50c.

**Purgative Tablets.** Perfectly safe and effective. Postpaid 50c.

**Worm Capsules.** An excellent remedy for Round, Maw and Tape Worms. Postpaid 50c.

**Worm Capsules for Puppies.** May be given with perfect safety to puppies from six weeks old to six months. Postpaid 50c.

**Tonic and Condition Tablets.** For toy dogs and puppies. Postpaid 50c.

**Tonic and Condition Tablets for cats.** Postpaid 50c.

**Distemper Tablets for toy dogs and puppies.** Postpaid 75c.

**Distemper Tablets for Cats.** Postpaid 75c.

**Vermifuge Capsules for toy dogs and puppies.** Postpaid 50c.

**Vermifuge Capsules for Cats.** Postpaid 50c.

**Dip.** Pints, 50c; prepaid, 65c.

**Mange Remedy.** Pints, 50c; prepaid, 65c.

**BY PARCELS POST.**—At last we have an inexpensive way of getting these valuable remedies to our far-away customers. On those NOT MARKED postpaid, take the P. P. (Parcels Post) weight and add proper amount for postage.

## RABBITS, BELGIAN HARES, CAVIES

These make most desirable pets for the children and educational experts advise that all children are better by having pets. Aside from this, there is quite a demand for these pets and good money in raising them for sale.

**BELGIAN HARES.**—Pure bred, young, \$1.00 to \$1.50 each; breeding age, \$2.50 to \$3.50; with pedigree, \$5.00 each. Utility stock, young, 50c to 75c each; breeding age, \$1.50 to \$2.50.

**RUFUS RED BELGIANS** are improved high bred strain, beautiful rufus red in color, coat fine and soft. Young, \$1.50 to \$2.50 each; breeding age, \$3.50 to \$5.00 with pedigree, \$5.00 to \$7.50.

**WHITE ENGLISH (Pink eye).**—In great demand about Easter time, they make ideal Easter rabbits. Young, 50c to 75c each; breeding age, \$1.50 to \$2.50.

See matter and test.

## NEW ZEALAND R



## Blatchford's Calf Meal

A perfect substitute for milk. As rich as whole milk; one-half as expensive. Sell your cream and use Blatchford's Calf Meal. A pound makes one gallon of perfect milk substitute equal to pure milk for raising calves. Prevents scouring and insures early maturity.

## GOLDFISH GLOBES, FOOD, ETC.

We are the largest retail and wholesale dealers in Fancy Gold Fish in the Northwest, often having a thousand or more on display in our large aquarium at our store.



Chinese Telescope.



Common Gold Fish.



Japanese Fan-tail.

An aquarium is a beautiful ornament. It suits everywhere, parlor, library, dining and sitting room, and may indeed be introduced in apartments of the sick. The bright, active Gold Fish are very interesting, a perpetual source of amusement for both old and young folks. Children are always delighted with them.

**CARE OF GOLD FISH.**—The care of Gold Fish is very simple and little trouble. The water in the aquaria must be changed from one to six times a week, depending on the size of the globe, number of fish and the temperature. When the fish come to surface and gasp for air, they should be given fresh water. **FEEDING.**—The only safe diet is our prepared Fish Food, fed daily and only what they will eat up quickly. Bread or cracker crumbs should never be fed—more fish die from over-feeding than any other cause. Keep the aquariums out of the direct hot sun light and in a cool place.

### Price List of Fish

**COMMON GOLD FISH** (see cut).—Very hardy and lively. Each, very small, 15c; small, 25c; medium, 35c; medium large, 50c; large, 75c; extra large, \$1.00; extra large breeders \$1.50 to \$2.00. Fancy Tri-colored, 35c to \$1.00 and up.

**COMMON SILVER FISH.**—Same as above, except they are silvery white. Each, medium, 25c; large, 50c; large breeders, \$1.00.

**JAPANESE FAN-TAIL** (see cut).—The most popular fancy fish. The fins and tail are of a delicate lace-like appearance, very showy and attractive. Price, golden, small, 25c; medium, 35c; large, 50c to \$1.00; Tri-colored, golden-red, pearly-white and black, showing two or all three colors, 50c, 75c and \$1.00 each.



Standard Fish Globe.

### Aquaria Plant or Moss

This water plant improves the appearance of the aquaria or globe and helps purify the water. Price per bunch, 25c, postpaid. Cannot supply in July or August.

### Fish Food

Supported wafer, large box, enough for four fish for six months, 25c. Directions for feeding and care

# Books You Should Read

Save time, energy and money by reading these practical and up-to-date books. Did you ever stop to think that a few hours' reading now and then will give you valuable information that it has taken others YEARS OF LABOR AND EXPERIENCE to obtain?

## Miscellaneous Farm and Garden Books.

|                                                    | Prices Postpaid |                                                                | Prices Postpaid |
|----------------------------------------------------|-----------------|----------------------------------------------------------------|-----------------|
| Asparagus.—(Hexamer.) 174 pages.....               | \$.60           | Money in the Garden—(P. T. Quinn), 268 pages .....             | 1.10            |
| Celery Culture.—(Beattie), 150 pages... .          | .60             | Mushrooms—How to Grow Them. (W. Falconer), 170 pages, 5x7..... | 1.10            |
| Draining for Profit and Health.—152 pages .....    | 1.10            | Mushroom Culture .....                                         | .25             |
| Forage Crops, Other than Grasses—(Shaw) .....      | 1.10            | New Western Raspberry—Blackberry Culture.—(Littooy) .....      | .40             |
| Fruit Garden.—(Barry's.) 516 pages... .            | 1.65            | Our Farm of Four Acres.—126 pages... .                         | .40             |
| Greenhouse Construction (Taft), 210 pages .....    | 1.60            | Practical Fruit Grower.—(Maynard), 128 pages .....             | .60             |
| Greenhouse Management.—(Taft), 382 pages .....     | 1.65            | Profitable Dairying.—(Peck), 200 pages ..                      | .80             |
| Irrigation, Garden, Farm, Orchard—276 pages .....  | 1.10            | Strawberry Culturist.—(Fuller), 59 pp. .                       | .30             |
| Keeping One Cow—136 pages, 5x7... .                | 1.10            | The Rose.—(Ellwanger) .....                                    | 1.35            |
| Landscape Gardening.—(Waugh), 152 pages .....      | .85             | The American Apple Orchard.—(New), 226 pages .....             | 1.10            |
| Practical Potato Culture.—(Rogers) 128 pages ..... | .50             | The Potato.—(Frazer.) 200 pages, 5x7..                         | .85             |
|                                                    |                 | Tomato Culture.—Western (Litty) .....                          | .25             |

## Up-to-Date Poultry Books.

Thousands of these valuable books have been sold; the late editions have been carefully revised, enlarged and brought up-to-date in both reading matter and illustrations.

|                                                       | Prices Postpaid |                                                                | Prices Postpaid |
|-------------------------------------------------------|-----------------|----------------------------------------------------------------|-----------------|
| Artificial Incubating and Brooding.—96 pages .....    | \$.50           | Leghorns.—New, 144 pages, 9x12, illus. .                       | 1.00            |
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| Ducks and Geese.—80 pages, 9x12, illustrated .....    | .75             | Foultry Houses and Fixtures.—96 pages, 9x12, illustrated ..... | .50             |
| Egg Record and Account Book.—82 pages, 5x10 .....     | .25             | Rhode Island Reds.—New and up to date ..                       | .75             |
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**AMERICAN STANDARD OF PERFECTION.**—Latest & matter and testi. profusely illustrated. The only authorized guide for producing the book that poultry judges use at the in selecting and mating their breeding that comes to us highly recommended. **Sure** cattle, horses, sheep, swine or poultry. **Price, post-**

The only series poses. It is strongly

128 pgs

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## Blatchford's Calf Meal

A perfect substitute for milk. As rich as whole milk; one-half as expensive. Sell your cream and use Blatchford's Calf Meal. A pound makes one gallon of perfect milk substitute equal to pure milk for raising calves. Prevents scouring and insures early maturity. Free 16-page booklet "tells all." If interested, write,





# REFERENCE TABLES

Quantity of Seeds to produce a given number of plants or to sow an acre.

| Quantity per acre                                      | Quantity per acre                                 | WEIGHT PER BUSHEL                                   |
|--------------------------------------------------------|---------------------------------------------------|-----------------------------------------------------|
| Asparagus, 1 oz. to 400 plants ..... 5 lbs.            | Timothy ..... 12 to 15 lbs.                       | Barley ..... 48 lbs.                                |
| Asparagus Roots ..... 7500 lbs.                        | Orchard ..... 30 to 40 lbs.                       | Beans ..... 60 lbs.                                 |
| Barley ..... in drills 75 lbs.                         | Rye Grass ..... 30 to 40 lbs.                     | Buckwheat ..... 48 lbs.                             |
| .....broadcast 100 lbs.                                | Horse Radish Roots ..... 10,000 to 15,000         | Blue Grass.....14 to 30 lbs.                        |
| Beans, Dwarf, 1 lb. to 100 ft. .... 60 lbs.            | Kale, 1 oz. to 4000 plants. .... 4 oz.            | Cheat ..... 34 lbs.                                 |
| Pole, 1 lb. to 100 hills. .... 30 lbs.                 | Kaffir Corn, drills. .... 8 to 10 lbs.            | Clover Seed ..... 60 lbs.                           |
| Beet, Garden, 1 oz. to 50 ft. .... 6 lbs.              | Kohl Rabi, 1 oz to 300 ft. .... 3 lbs.            | Corn, shelled.... 56 lbs.                           |
| ..... 6 lbs.                                           | Leek, 1 oz. to 100 ft. .... 4 lbs.                | Emmer ..... 40 lbs.                                 |
| Mangel, 1 oz. to 100 ft. .... 5 lbs.                   | Lettuce, 1 oz. to 300 ft. .... 3 lbs.             | Grass Seed, un- less otherwise stated ..... 14 lbs. |
| Broccoli, 1 oz. to 3,000 plants ..... 4 ozs.           | Millet—For Seed ..... 20 lbs.                     | Hungarian Millet 48 lbs.                            |
| ..... 4 ozs.                                           | For Hay ..... 35 lbs.                             | Lawn Grass. 14 to 30 lbs.                           |
| Brussels Sprouts, 1 oz. to 3,000 plants ..... 4 ozs.   | Melon—Musk, 1 oz. to 50 hills ..... 2 to 3 lbs.   | Meadow Fescue. 24 lbs.                              |
| Buckwheat, drilled, 30 lbs; broadcast ..... 50 lbs.    | Water, 3 oz. to 100 hills. .... 3 to 4 lbs.       | Millet ..... 50 lbs.                                |
| Cabbage, 1 oz. to 3,000 plants ..... 4 ozs.            | Oats—For Grain ..... 80 lbs.                      | Oats ..... 32 lbs.                                  |
| Carrot, 1 oz. to 200 ft. .... 3 lbs.                   | Hay ..... 100 lbs.                                | Onion Sets ..... 32 lbs.                            |
| Cauliflower, 1 oz. to 3,000 plants ..... 4 ozs.        | Okra, 1 oz. to 100 ft. .... 8 lbs.                | Peach Pits ..... 48 lbs.                            |
| Celery, 1 oz. to 7,500 plants ..... 4 ozs.             | Onion Seed, 1 oz. to 150 ft. .... 3 to 4 lbs.     | Peas, smooth.... 60 lbs.                            |
| Cheat ..... 100 lbs.                                   | For Sets ..... 50 to 60 lbs.                      | Wrinkled ..... 56 lbs.                              |
| Chicory, 1 oz. to 300 ft. .... 4 lbs.                  | Onion Sets, 1 lb. to 40 ft. .... 250 lbs.         | Potatoes ..... 60 lbs.                              |
| Clover, Alsike and White. .... 8 to 10 lbs.            | Parsnips, 1 oz. to 200 ft. .... 5 lbs.            | Rye ..... 56 lbs.                                   |
| White for lawn..... 60 lbs.                            | Parsley, 1 oz. to 150 ft. .... 3 lbs.             | Rye Grass ..... 20 lbs.                             |
| Alfalfa ..... 15 to 20 lbs.                            | Peas—Garden, 1 lb. to 100 ft. .... 85 to 100 lbs. | Red Top ..... 14 lbs.                               |
| Crimson Trefoil 10 to 15 lbs.                          | Field ..... 100 lbs.                              | Solid Seed. 30 to 42 lbs.                           |
| Red ..... 10 to 12 lbs.                                | Pepper, 1 oz. to 1500 plants. .... 4 oz.          | Speltz ..... 40 lbs.                                |
| Corn, Pop ..... 8 to 10 lbs.                           | Pumpkin, 4 oz. to 100 hills ..... 4 lbs.          | Timothy ..... 45 lbs.                               |
| Sweet or Field, 1 lb. to 200 hills ..... 15 to 20 lbs. | Radish, 1 oz. to 100 ft. .... 8 to 10 lbs.        | Vetches ..... 60 lbs.                               |
| Ensilage, drilled ..... 70 lbs.                        | Rai, drilled 3 lbs., broad- cast ..... 5 lbs.     | Wheat ..... 60 lbs.                                 |
| Corn Salad, 3 ozs. to 100 ft. .... 5 lbs.              | Rye—For Grain ..... 80 lbs.                       |                                                     |
| Cress, 1 oz. to 400 ft. .... 1 lb.                     | For Hay ..... 100 lbs.                            |                                                     |
| Cucumber, 1 oz. to 50 hills ..... 2 to 3 lbs.          | Salsify, 1 oz. to 50 ft. .... 8 lbs.              |                                                     |
| Egg Plant, 1 oz. to 2,000 plants ..... 4 ozs.          | Speltz ..... 80 lbs.                              |                                                     |
| Emmer or Speltz ..... 80 lbs.                          | Spinach, 1 oz. to 100 ft. .... 10 lbs.            |                                                     |
| Endive, 1 oz. to 300 ft. .... 4 lbs.                   | Sugar Cane, drilled..... 10 lbs.                  |                                                     |
| Flax, broadcast ..... 40 lbs.                          | Sunflower ..... 8 lbs.                            |                                                     |
| Grass, Kentucky Blue for pasture ..... 30 to 40 lbs.   | quash, Summer, 2 oz. to 100 hills ..... 3 lbs.    |                                                     |
| Kentucky Blue for awn ..... 100 lbs.                   | Winter, 4 oz. to 100 hills. .... 4 lbs.           |                                                     |
| Mixed Lawn. .... 80 to 100 lbs.                        | Tomato, 1 oz. to 2500 plants. .... 2 oz.          |                                                     |
| Red Top Common ..... 30 lbs.                           | Tobacco, 1 oz. to 4000 plants ..... 3 oz.         |                                                     |
| Solid Seed ..... 12 to 15 lbs.                         | Turnip, 1 oz. to 300 ft. .... 2 lbs.              |                                                     |
|                                                        | Vetches ..... 85 lbs.                             |                                                     |
|                                                        | (Or 60 lbs. with 40 lbs. of grain.)               |                                                     |
|                                                        | Wheat ..... 80 to 100 lbs.                        |                                                     |

## SQUARE MEASURE

|                  |            |
|------------------|------------|
| 144 sq. inches   | 1 sq. ft.  |
| 9 sq. feet       | 1 sq. yd.  |
| 30 1/4 sq. yards | 1 sq. rod  |
| 40 sq. rods      | 1 rood     |
| 4 roods          | 1 acre     |
| 640 acres        | 1 sq. mile |

## DRY MEASURE

|            |            |
|------------|------------|
| 2 pints    | 1 quart    |
| 8 quarts   | 1 peck     |
| 4 pecks    | 1 bushel   |
| 36 bushels | 1 chaldron |

## Table for Planting Trees and Plants

and cultivation, you can set plants or trees closer.

|              |       |          |      |
|--------------|-------|----------|------|
| berries      | 4     | by 6     | feet |
| berries      | 3     | by 6     | feet |
| berries, Lo- | 8     | by 6     | feet |
|              | 2 1/2 | by 8     | feet |
|              | 1 1/2 | by 3     | feet |
|              | 1     | by 2     | feet |
|              | 4     | by 1 1/2 | feet |
|              | 4     | by 1     | feet |



**DIRECT from GROWER to PLANTER-NO AGENTS**



**ANEMONE**

**Princess**

See Page



... matter and testi.  
...edy that comes to us highly recommended. **Sure**  
cattle, horses, sheep, swine or poultry. **Price, post-**

### **Blatchford's Calf Meal**

A perfect substitute for milk. As rich as whole milk; one-half as expensive. Sell your cream and use Blatchford's Calf Meal. A pound makes one gallon of perfect milk substitute equal to pure milk for raising calves. Prevents scouring and insures early maturity. Free 16-page booklet "tells all." If interested, write,